# APPENDIX M CASE 10-T-0139 WATERBODY INVENTORY (114A) & WETLAND DELINEATION REPORT Package 1C

# Wetland & Waterbodies Delineation Report



# Champlain Hudson Power Express Segment 3-Package 1C

# Whitehall – Fort Ann, New York

CHA Project Number: 066076

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March 2023

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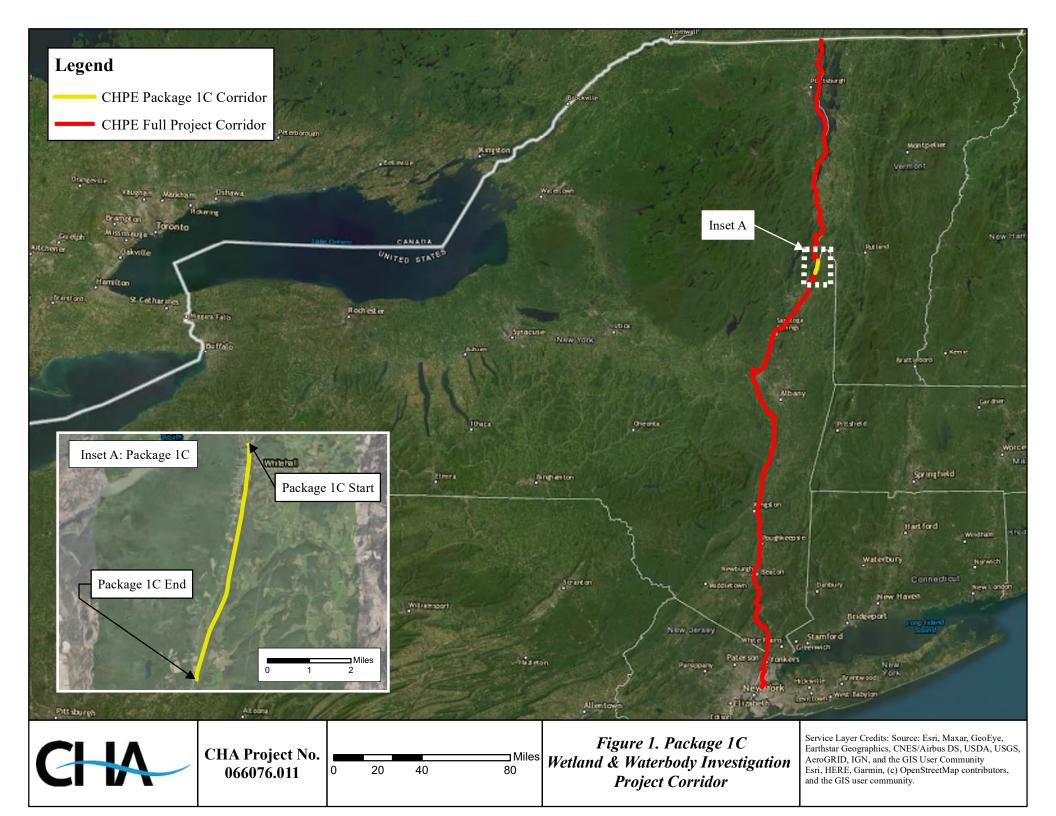
#### 1.0 INTRODUCTION

CHA Consulting, Inc. ("CHA") has prepared this wetland and waterbodies delineation report on behalf of Champlain Hudson Power Express, LLC ("CHPE, LLC") and Kiewit Construction (Kiewit) for the Champlain Hudson Power Express Project (Project). CHA was retained by Kiewit to identify and delineate jurisdictional wetlands and waterways 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), and Article 15 (Protection of Waters) of the Environmental Conservation Law along the overland transmission cable route that follows State and local roadways and the Canadian Pacific (CP) railroad 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 as part of 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 Jurisdiction Determination limits) during field surveys for the overland portions of the Project.

#### 2.0 PACKAGE 1C 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 5.9 miles of the Segment 3 - Package 1C Project Corridor that was investigated for wetlands and waterbodies.

Segment 3 - Package 1C begins at the cross-over from State Route 22 to the CP railroad in the Village of Whitehall, NY, extending 5.9 miles to the crossover from CP Rail to Old Route 4 in the Town of Whitehall, NY, just north of the municipal boundary with the Town of Fort Ann.



#### 3.0 WETLAND DELINEATION METHODOLOGY

To determine the potential for wetland impacts from construction of the Project, CHA assessed the Project Corridor in the field for the presence of federal (Section 404 CWA & Section 10 of the Rivers and Harbors Act of 1899) and state (Article 24 FWW & Article 15 Protection of Waters) jurisdictional wetlands and waterbodies. Greenman Pedersen, Inc. (GPI) assisted with the field work. The delineation criteria and methodology were performed in accordance with the United States Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual, the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (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 primarily the land within CP railroad ROW and adjacent properties, as necessary, to accommodate alignment changes, laydown areas, and access roads. The wetland delineation limits were approximately 100 feet from the outside edge of rail, limited to the side of the road or railroad corridor on which the alignment follows and within the ROW of the roads and railroad. Excursions beyond these limits were required for re-alignments, laydown areas, and access roads, as previously discussed.

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

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

Coded surveyor's ribbons (eg, flag code A-1, A-2, etc.) were placed along the wetland boundaries based on observations of vegetation, soils and hydrologic conditions. Data points were recorded along the wetland boundaries at various locations across different vegetative community types correlating to each wetland. Wetland and upland data points 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 changes in vegetative communities. Wetland Determination Data Sheets corresponding to each point can be found in Attachment 1.

Wetlands within the Segment 3 - Package 1C Project Corridor fall under the jurisdiction of the New York State Department of Environmental Conservation (NYSDEC) and/or the U.S. Army Corps of Engineers (USACE). The New York State methodology similarly recognizes the three parameters of vegetation, soils, and hydrology; however, under the New York State method the hydrophytic vegetation criterion is mandatory, while the other two parameters are not (Browne et. al. 1995). Wetlands regulated by NYSDEC must be at least 12.4 acres (5 hectares) in size, unless they are deemed to have unusual local importance (Article 24 FWW). The NYSDEC publishes maps of wetland areas under state jurisdiction; however, they use field delineation to determine the precise boundaries of these wetland areas.

Prior to actual field delineations for wetland resources, CHA reviewed USGS 7.5-minute topographic maps, aerial photographs, National Wetland Inventory (NWI) mapping, United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil mapping, 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. Wetland scientists from the CHA Team conducted wetland delineations from October 2021 to November 2022. Refer to Attachment 2 for NWI and NYSDEC Freshwater Wetlands & Stream Mapping and Attachment 3 for NRCS Soil Mapping.

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

This report documents the wetlands and waterbodies potentially under federal and State jurisdiction that were identified in the survey corridor along the current proposed underground transmission cable route. Summaries of wetlands that were identified are provided in Table 4-1 in

Attachment 4. Wetlands and Waterbodies Delineation Mapping is included in Attachment 5. Wetland determination data forms and photographic documentation of the wetlands are included in Attachment 1.

#### 4.0 WETLAND & WATERBODIES DELINEATION RESULTS

A total of 16 wetlands totaling approximately 27.2 acres were identified within the Segment 3 - Package 1C 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. Within this segment there are no State regulated wetlands.

Narrative descriptions of wetland vegetation, hydrology, and soils observed within the Project survey area are presented in the following sections. The wetlands delineated within the surveyed areas are summarized in Table 4-1. Table 4-2 summarizes the waterbodies identified within the surveyed areas. Table 4-3 provides the soil series information assembled for the Project Corridor. Refer to Attachment 4 for each of these tables. The Wetlands and Waterbodies Delineation Mapping provided in Attachment 5, displays the locations of delineated wetlands and waterways. 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 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:

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

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

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

#### 4.1.1 Palustrine Emergent Wetland

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

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

Deep emergent marshes occur on mineral soils or fine-grained organic soils with water depths ranging from 6 inches to 6.0 feet (Edinger et. al., 2014). No deep emergent marshes occur within this Segment.

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

The ditch/artificial intermittent stream community consists of artificial waterways constructed for drainage or irrigation (Edinger et. al., 2014). Vegetation within the ditches is typically dominated

by grasses and sedges. Invasive species such as common reed, purple loosestrife, and reed canary grass are commonly found within the ditches along the railroad ROW.

#### 4.1.2 Palustrine Scrub-Shrub Wetland

The scrub-shrub wetland cover type includes areas that are dominated by saplings and shrubs that are less than 20 feet tall (Cowardin et. al., 1979). Scrub-shrub wetlands along the Project Corridor were dominated by speckled alder (*Alnus incana*), red osier dogwood (*Cornus sericea*), silky dogwood (*Cornus amomum*), gray dogwood (*Cornus racemosa*), and honeysuckle (*Lonicera spp.*). Other vegetation observed includes green ash (*Fraxinus pennsylvanica*), willow (*Salix spp*) smooth arrowwood (*Viburnum dentatum*), common winterberry (*Ilex verticillata*), and white meadowsweet (*Spirea alba*). Invasive species observed within scrub-shrub wetlands includes honeysuckle and common buckthorn (*Rhamnus cathartica*). PSS wetlands occur as a single dominant wetland cover type, and as a co-dominant wetland type when other plant community types exist within the wetland.

#### 4.1.3 Palustrine Forested Wetland

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

Red maple-hardwood swamps occur in poorly drained depressions, usually on inorganic soils. Red maple is either the only dominant tree species or is codominant with one or more hardwoods (Edinger et. al, 2014). Hardwood species observed within this community type within the Project Corridor include green and white ash (*Fraxinus pennsylvanica* and *F. americana*), American elm (*Ulmus americana*), red maple (*Acer rubrum*), eastern cottonwood (*Populus deltoides*), swamp white oak (*Quercus bicolor*), red maple (*Acer rubrum*), speckled alder, and black willow (*Salix nigra*). Shrub species commonly observed within red maple-hardwood swamps in the Project

Corridor include dogwoods, speckled alder, willows, and honeysuckle. The herbaceous layer typically includes sensitive fern, tussock sedge (*Carex stricta*), goldenrods, and field horsetail. Invasive species observed within red maple-hardwood forests included honeysuckle, buckthorn, and purple loosestrife.

Floodplain forests typically occur on mineral soils on low terraces of river floodplains and river deltas (Edinger et al., 2014). Tree species observed within this community type in the Project Corridor include green ash, American elm, speckled alder, and common buckthorn. Shrubs included dogwoods, honeysuckle, speckled alder, and nannyberry (*Viburnum lentago*). Sensitive fern, goldenrods, horsetail (*Equisetum* spp.), and moneywort (*Lysimachia nummularia*) were commonly found in the herbaceous layer. Invasive honeysuckles and buckthorns were also observed in floodplain forests within the Project Corridor.

#### 4.1.4 Open Water

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

#### 4.2 HYDROLOGY

#### 4.2.1 Streams

Table 4-2 lists the 7 streams (perennial [5], intermittent [2]) identified within the Project Corridor. The overland transmission cable route is located within the Lake Champlain Basin. The Lake Champlain Basin drains the area between the Adirondacks in New York and the Green Mountains in Vermont. Perennial waterbodies within the Project Corridor in this watershed are all unnamed tributaries to the Champlain Canal.

#### 4.2.2 Wetlands

Site hydrology was examined within each wetland and adjacent upland areas. Indicators of wetland hydrology included inundation (A1) or evidence of inundation (A2 & A3) (such as water-stained leaves (B9) or buttressed tree trunks), trees with shallow roots, saturation within the upper portion of the soil (A3) during the growing season, drainage patterns (B10) and drift lines within wetlands, sediment deposition (B2), and oxidized root channels (C3) in the upper 12 inches of soil (Attachment 1). Hydrologic factors contributing to the presence of wetland hydrology within wetlands in the Project Corridor included inundation with river, pond, or stream water, temporarily ponded runoff, and seasonally to permanently shallow groundwater tables.

Hydrology along the Project Corridor has been historically altered by railroad drainage ditches. CHA inspected these ditches 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 USDA NRCS soil map units for the Project Corridor are provided in Attachment 3. Indicators of hydric soils included muck or evidence of gleyed colors such as histic epipedon (A2), black histic (A3), depleted below dark surface (A11), thick dark surface (A12), sandy redox (S5), dark surface (S7), thin dark surface (S9), loamy gleied matrix (F2), depleted matrix (F3) and redox dark surface (F6) (Attachment 1). Within the Project Corridor, a total of 13 different soil types are mapped by the NRCS. The mapped soil types range from well drained to very poorly drained soils. According to the National List of Hydric Soils prepared by the NRCS (2009), four (4) of the soils mapped within the Project Corridor are classified as hydric soils (Covington silty clay loam, Limerick silt loam, Saco silt loam and Saprists, Aquepts, and Aquents). Hydric soils are defined as soils "that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part of the soil" (Federal Register, 1994). Table 4-3 summarizes the soil series in the Project Corridor and lists the soils that are classified as hydric (or associated with wetland hydrology) in the Project Corridor.

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

# 4.4 NATURAL RESOURCE CONSERVATION SERVICE SOIL SERIES DESCRIPTIONS

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

#### **Covington Series (Cv)**

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

#### **Hartland Series (HcA)**

These deep, well-drained medium textures soils formed in water-sorted silt and very fine sand and occur typically in cultivated areas. Slopes range from 0 to 20 percent. The A horizon is up to 10 inches deep and consists of a dark brown very fine sandy loam with a very weak, fine granular structure. The B horizon is up to 5 inches deep with a yellowish-brown color with a weak, medium, subangular, blocky structure. Depth to bedrock is more than 6 feet.

#### Hollis Series (HLE)

These shallow, somewhat excessively drained soils formed in glacial till. Slopes range from 0 to 60 percent. The A horizon is dark brown loam 4 inches thick with weak granular structure. The upper 4 inches of the B horizon is strong-brown sandy loam and the lower 11 inches is yellowish-brown fine sandy loam. The B horizon has weak granular or weak blocky structure. Bedrock is at a depth of 19 inches.

#### **Kingsbury Series (KbA & KbB)**

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

#### **Limerick Series (Lm)**

These deep, poorly drained soils formed in alluvial deposits of silt and very fine sand. They are nearly level and are found in low areas on flood plains. The A horizon is very dark grayish brown about 3 inches thick. The structure of the A horizon is granular. The C horizon is typically a silt loam or very fine sandy loam that extends to a depth of 50 inches or more. The C horizon has grayish brown redoximorphic features to a depth of 14 inches, olive gray redoximorphic features between depths of 14 and 26 inches, and gray redoximorphic features below 26 inches. The C horizon is massive or has a subangular blocky or granular structure.

#### **Orthents and Psamments (OP)**

This map unit consists of material dredge and pumped from the Hudson River and Champlain Barge Canal. The material is composed of a variable mixture of dominantly fine gravel and sand and some silt and clay.

#### Saco Series (Sa)

These very deep, very poorly drained soils formed in recent alluvium on floodplains. Slopes range from 0 to 2 percent. The A horizon is very dark grayish brown silt loam or very fine sandy loam, or their mucky analogs. It is massive or has weak granular structure. Strong brown and grayish brown redoximorphic features are present beginning at a depth of 10 inches. The C horizon is grayish brown or olive gray with a silt loam or very fine sandy loam texture above a depth of 40 inches and loamy fine sand to very gravelly coarse sand texture below 40 inches. The C horizon is massive or has weak structure.

#### Saprists, Aquepts, and Aquents (SB)

These soils consist of low-lying, level deposits of organic and mineral soil material that is ponded with shallow water most of the year. They are mainly found around the edges of lakes and ponds.

#### Teel series (Te)

These very deep, moderately well drained soils typically on floodplains formed in level, silty alluvial deposits. Slopes range from 0 to 3 percent. The A horizon is generally very dark grayish brown silt loam that has moderate to medium structure. The thickness of the A horizon ranges from 2 to 5 inches. The B horizon typically consists of dark to grayish brown silt loam. It contains redoximorphic features in depths of 12 to 24 inches below the soil surface. This layer has weak to moderate, subangular blocky or prismatic structure. The C horizon generally has similar color to the deeper portions of the B horizon. This horizon consists of silt loam, very fine sandy loam, or fine sandy loam in the fine earth fraction. The C horizon can have plate like divisions from fine stratification.

#### Vergennes Series (VeB, VeC & VeD)

These very deep, moderately well drained soils formed in calcareous estuarine and glacio-lacustrine clays. They are on broad plains and on the tops and side-slopes of hills and ridges, with slopes ranging from 0 to 50 percent. The A horizon is generally dark grayish brown clay that has blocky structure. Occasionally, a clay, silty clay, silty clay loam, or silt loam E horizon is present. The B horizon is typically brown clay, with more dark grayish brown color with depth. The C horizon is generally clay with silt and silty clay varves.

#### 5.0 SUMMARY

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

Land use in the Project Corridor is diverse, ranging from rural, agricultural, and forested areas to more developed hamlet residential landscapes. In general, because the Project Corridor is routed along existing railroad corridor, many wetlands within the Project Corridor are characterized by previous anthropogenic disturbance and/or the presence of invasive plant species. The Project Corridor is located along the edge between the disturbed railroad and more natural vegetated wetland communities that are present adjacent to the railroad and highway rights-of-way. The wetland boundaries in the Project Corridor are most often defined by the edge of the soil fill for the railroad.

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 3 - Package 1C are regulated by USACE (Section 10/404). There are no mapped NYS Freshwater Wetlands regulated by NYSDEC (Article 24) within this Segment. Streams and other waterbodies are regulated by USACE (Section 10/404). There are no NYSDEC (Article 15) regulated streams within the Segment. It is anticipated that USACE will take jurisdiction over all the wetlands delineated within the Project Corridor.

#### 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: Whitehall/Washington Sampling Date: 02-15-2023
Applicant/Owner: TDI	State: NY Sampling Point: Wet
Investigator(s): C. Scrivner & C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 4
Subregion (LRR or MLRA): LRR R Lat: 43.539	<del></del>
Soil Map Unit Name: OP: Orthents and Psamments	NWI classification: PSS1
· ————————————————————————————————————	
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrology naturall	y problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near flag P1C-B2-10
Remarks: (Explain alternative procedures here or in a separate Shrub Swamp.	eport.)
Official Gwarfip.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	ply) Surface Soil Cracks (B6)
Surface Water (A1)Water-Stained	d Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna	a (B13) Moss Trim Lines (B16)
Saturation (A3)Marl Deposits	(B15) Dry-Season Water Table (C2)
Water Marks (B1)Hydrogen Sul	fide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhiz	ospheres on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of F	Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron R	eduction in Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Su	
Inundation Visible on Aerial Imagery (B7)Other (Explain	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
	h (inches):
Water Table Present? Yes No X Dept Saturation Present? Yes X No Dept	h (inches):
·	h (inches): 6 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspections), if available:
Remarks:	

#### **VEGETATION** – Use scientific names of plants. Sampling Point: Wet Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30') Species? Status % Cover **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15' OBL species 10 10 x 1 = 95 x 2 = Cornus sericea 60 **FACW** species 190 Yes FACW 2. 15 No **FACW** FAC species x 3 = Cornus amomum 15 **FACU** species 15 3. Lonicera morrowii No **FACU** x 4 = x 5 = 4. Fraxinus pennsylvanica 10 **FACW** UPL species 0 5. Column Totals: 120 260 6. 2.17 Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** 7. 100 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% Phragmites australis **FACW** X 3 - Prevalence Index is ≤3.0<sup>1</sup> 2. Typha latifolia 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4. 5. <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 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. 11. Herb - All herbaceous (non-woody) plants, regardless 20 =Total Cover of size, and woody plants less than 3.28 ft tall. 30' Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 1. Hydrophytic Vegetation Present? Yes X No =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: Wet

		the de		<b>ment th</b> x Featur		or or co	nfirm the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 2/1	85	2.5YR 3/4	15	С	M	Loamy/Clayey	Prominent redox concentrations
12-19	10YR 5/1	70	10YR 5/8	30			Loamy/Clayey	Prominent redox concentrations
		_		<u> </u>			·	
		<u> </u>						
								_
1- 0.0							21 51	
Hydric Soil Ir		etion, RM	l=Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol ( Histic Epi Black His Hydroger Stratified X Depleted X Thick Dan Mesic Sp (MLRA Sandy Mt Sandy Gl Sandy Re Stripped I	A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) odic (A17) A 144A, 145, 149B) ucky Mineral (S1) eyed Matrix (S4)	(A11)	Dark Surface (Secondary Polyvalue Beloom MLRA 149B) Thin Dark Surface High Chroma Secondary Mucky In Loamy Gleyed Depleted Matrix Xedox Dark Surface Depleted Dark Redox Depressecondary (F10) (LRedox Parent Matrix Red Parent Matrix Red Parent Matrix Red Parent Matrix Red Parent Matrix Redox Depressecondary (F10) (LRedox Parent Matrix Red Parent Matrix Polyvalue Parent Pa	w Surface ) ace (S9) Sands (S Mineral ( Matrix (F3) urface (F Surface sions (FE R K, L)	(LRR R, 11) (LRF F1) (LRF F2) 6) (F7)	MLRA 1	2 cm Mu Coast Pr 5 cm Mu 49B) Polyvalue Thin Dar Iron-Man Piedmon Red Pare Very Sha Other (E:	ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) et Floodplain Soils (F19) (MLRA 149B) ent Material (F21) (outside MLRA 145) allow Dark Surface (F22) xplain in Remarks)  rs of hydrophytic vegetation and d hydrology must be present, e disturbed or problematic.
Depth (in	ches):						Hydric Soil Presen	t? Yes X No
Remarks:								



Wetland P1C-B2 - View facing southeast



Wetland P1C-B2 - Soils

# Package 1C

# 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: Whitehall/Washington	Sampling Date: 02/15/2023				
Applicant/Owner: TDI		State: NY	Sampling Point: Upl P1C-B2				
Investigator(s): C. Scrivner & C. Einstein		Section, Township, Range:					
Landform (hillside, terrace, etc.): Flat	Local re	elief (concave, convex, none): None	Slope %: 0				
Subregion (LRR or MLRA): LRR R	Lat: 43.53931° N	Long: -73.40674° W	Datum: WGS84				
Soil Map Unit Name: KbA: Kingsbury silty clay,		NWI classification:					
			-				
Are climatic / hydrologic conditions on the site typ	·		, explain in Remarks.)				
Are Vegetation, Soil, or Hydrolog	gysignificantly disturbe	ed? Are "Normal Circumstances" pres	ent? Yes x No				
Are Vegetation, Soil, or Hydrolog	ynaturally problemati	ic? (If needed, explain any answers in	n Remarks.)				
SUMMARY OF FINDINGS – Attach sit	te map showing samp	ling point locations, transects, im	portant features, etc.				
Hydrophytic Vegetation Present? You	es No X	Is the Sampled Area					
	es No X es No X	within a Wetland? Yes	No X				
l	es No X	If yes, optional Wetland Site ID:	<u> </u>				
Remarks: (Explain alternative procedures here							
Successional old field.	or iii a separate report.)						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (	minimum of two required)				
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Crack	<del>-</del>				
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					
Water Marks (B1)	Hydrogen Sulfide Odor (C						
Sediment Deposits (B2)	Oxidized Rhizospheres or		on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron	Stunted or Stresse	d 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 (B7)	Other (Explain in Remarks	s) Microtopographic F	Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test	(D5)				
Field Observations:							
Surface Water Present? Yes N	No X Depth (inches):						
Water Table Present? Yes N	No X Depth (inches):						
Saturation Present? Yes N	No X Depth (inches):	Wetland Hydrology Present?	Yes No _X_				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previ	ious inspections), if available:					
Remarks:							

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

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2		·		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant Species Across All Strata:3(B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Rhus typhina	5	Yes	UPL	FACW species 0 x 2 = 0
2.				FAC species 35 x 3 = 105
3.				FACU species 25 x 4 = 100
4				UPL species15 x 5 =75
5				Column Totals: 75 (A) 280 (B)
6.				Prevalence Index = B/A = 3.73
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Setaria pumila	30	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Rubus occidentalis	10	No	UPL	data in Remarks or on a separate sheet)
4. Acer negundo	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Arctium minus	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.  Definitions of Vegetation Strata:
8.				Definitions of Vegetation Strata.
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				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
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.		•		Woody vines – All woody vines greater than 3.28 ft in height.
				Height.
2.	1			Hydrophytic
3. 4.				Vegetation Present? Yes No X
4.		=Total Cover		Tresent: TesNoX
Demonstrate (Inches de marches de la companya de la				
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: Upl P1C-B2

SOIL Sampling Point: Upl P1C-B2

Profile Description: (Describe to the dep				or or co	nfirm the absence of indic	cators.)	
Depth Matrix		Feature		. 2			
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16 10YR 4/2 100					Loamy/Clayey		
						_	
						_	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix. MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.	
Hydric Soil Indicators:	, , ,					oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	Dark Surface (S	37)			2 cm Muck (A	A10) (LRR K, L, MLRA 149B)	
Histic Epipedon (A2)	Polyvalue Below	v Surfac	e (S8) ( <b>L</b>	RR R,		Redox (A16) ( <b>LRR K, L, R</b> )	
Black Histic (A3)	MLRA 149B)				5 cm Mucky I	Peat or Peat (S3) (LRR K, L, R)	
Hydrogen Sulfide (A4)	Thin Dark Surfa	ice (S9)	(LRR R,	MLRA 1	49B) Polyvalue Be	low Surface (S8) (LRR K, L)	
Stratified Layers (A5)	High Chroma Sa	ands (S	11) (LRR	K, L)	Thin Dark Su	ırface (S9) (LRR K, L)	
Depleted Below Dark Surface (A11)	Loamy Mucky M	/lineral (	F1) (LRR	R K, L)	Iron-Mangan	ese Masses (F12) (LRR K, L, R)	
Thick Dark Surface (A12)	Loamy Gleyed N	Matrix (F	<del>-</del> 2)		Piedmont Flo	oodplain Soils (F19) ( <b>MLRA 149B</b> )	
Mesic Spodic (A17)	Depleted Matrix	(F3)			Red Parent N	Material (F21) (outside MLRA 145)	
(MLRA 144A, 145, 149B)	Redox Dark Sur	rface (F	6)		Very Shallow	Dark Surface (F22)	
Sandy Mucky Mineral (S1)	Depleted Dark S	Surface	(F7)		Other (Explai	in in Remarks)	
Sandy Gleyed Matrix (S4)	Redox Depress	ions (F8	3)				
Sandy Redox (S5)	Marl (F10) ( <b>LRF</b>	₹ K, L)			<sup>3</sup> Indicators of hydrophytic vegetation and		
Stripped Matrix (S6)	Red Parent Mat	erial (F2	21) <b>(MLR</b>	A 145)	wetland hydrology must be present,		
					unless dist	urbed or problematic.	
Restrictive Layer (if observed):							
Type:							
Depth (inches):					Hydric Soil Present?	Yes No _X_	
Remarks:							
0							



Upland P1C-B2 - View facing south/southeast



**Upland P1C-B2 - Soils** 

# Package 1C

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

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

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22					
Applicant/Owner: TDI	State: NY Sampling Point: G-R-S-15 Wet					
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:					
- ` `	relief (concave, convex, none): Concave Slope %: 10					
Subregion (LRR or MLRA): LRR R Lat: 43-32-06N	Long: 73-24-27W Datum: WGS 84					
Soil Map Unit Name: OP - Orthents and Psamments	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 disturb	bed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydrologynaturally problema	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 X No           Hydric Soil Present?         Yes X No           Wetland Hydrology Present?         Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)  Cattail marsh (from flag 1 to 15).						
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 (B						
X High Water Table (A2)  Aquatic Fauna (B13)  Approximation (A2)  Approximation (B45)	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 Padvasd Inc.						
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4)  Recent Iron Reduction in This Muck Surface (C7)	— · · · · · · · · · · · · · · · · · · ·					
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Fundamin Deposits in Deposit in Deposits in Deposits in Deposit in Deposit in Deposit i						
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
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):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
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
2.				That Are OBL, FACW, or FAC:3 (A)
3. 4.				Total Number of Dominant Species Across All Strata:3(B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species90 x 1 =90
1. Cornus alba	5	Yes	FACW_	FACW species 5 x 2 = 10
2.				FAC species0 x 3 =0
3.				FACU species0 x 4 =0
4				UPL species0 x 5 =0
5				Column Totals: 95 (A) 100 (B)
6.				Prevalence Index = B/A =1.05
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%
1. Typha latifolia	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Typha angustifolia	45	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 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 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
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				Hydrophytic
3.				Vegetation
4		-Tatal Cause		Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: G-R-S-15 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix	0/		x Featur		. 2	<b>-</b> .	Б	
(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	tion RM	=Reduced Matrix N	 //S=Mas	ked Sand	Grains	<sup>2</sup> Location: PL=Pore	e Lining M=Matrix	
Hydric Soil I		7.1.011, 1 1.11	rtoddodd Matrix, H	ne mae	itou ourie	Oranio.		olematic Hydric Soils <sup>3</sup> :	
Histosol (			Polyvalue Belo	w Surfa	ce (S8) (I	RRR		0) (LRR K, L, MLRA 149B)	
	pedon (A2)		MLRA 149B		(00) (1	-1414 14,		ledox (A16) ( <b>LRR K, L, R</b> )	
Black His			Thin Dark Surf		/I DD D	MI DA 1		eat or Peat (S3) (LRR K, L, R)	
					-		· —		
	Sulfide (A4)		High Chroma S					w Surface (S8) (LRR K, L)	
	Layers (A5)	(4.44)	Loamy Mucky			K K, L)		ace (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			e Masses (F12) (LRR K, L, R)	
	rk Surface (A12)		Depleted Matri					dplain Soils (F19) ( <b>MLRA 149B</b> )	
	ucky Mineral (S1)		Redox Dark Su					TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy GI	eyed Matrix (S4)		Depleted Dark				Red Parent Ma		
Sandy Re			Redox Depress	,	8)			ark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK, L)			Other (Explain	in Remarks)	
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mι	ust be pr	esent, ur	less dist	urbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present?	Yes X No	
Remarks:	atad baaayaa damin	atad by (	ODI anasias standi	na wata	r and ab	aunt haum	don		
Solis flot colle	ected because domin	ateu by t	JBL species, standi	ng water	i, and abi	upt bouri	uary.		



Wetland G-R-S-15 - View facing southwest

Package 1C

SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

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

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22					
Applicant/Owner: TDI	State: NY Sampling Point: G-R-S-16 Wet					
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Depression/basin Local	relief (concave, convex, none): Concave Slope %: 10					
Subregion (LRR or MLRA): LRR R Lat: 43-32-08N	Long: 73-24-26W Datum: WGS 84					
Soil Map Unit Name: OP - Orthents and Psamments	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	<del></del>					
Are Vegetation, Soil, or Hydrologynaturally 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:					
Common reed marsh (from flag 15 to 19).						
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)					
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						
Iron Deposits (B5)  Thin Muck Surface (C7)						
X 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 X No Depth (inches):						
Saturation Present? Yes X No Depth (inches):	:0 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.						

#### **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
2				That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:(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:15')				OBL species0 x 1 =0
1. Cornus alba	5	Yes	FACW_	FACW species105 x 2 =210
2.				FAC species 0 x 3 = 0
3				FACU species0 x 4 =0
4				UPL species0 x 5 =0
5				Column Totals: 105 (A) 210 (B)
6.				Prevalence Index = B/A =2.00
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%
1. Phragmites australis	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations (Provide supporting
3.				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. 6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				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.				Vegetation
4.		=Total Cover		Present?
Demarka: (Include whate numbers here or on a cons	esta abaat \	Total Gover		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: G-R-S-16 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth					. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
								_	
								_	
								<u> </u>	
1		<del></del> -					2		
	ncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Masi	ked Sand	l Grains.		Pore Lining, M=Matrix.	
Hydric Soil Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol (A1) Polyvalue Below Surface (S8) (LRR R				LRR R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )				
Histic Epipedon (A2) MLRA 149B)						Coast Prairie Redox (A16) (LRR K, L, R)			
Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA					MLRA 1	<b>149B</b> ) 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )			
Hydrogen Sulfide (A4)  High Chroma Sands (S11) (LRR K, L)					R K, L)	Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )			
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b> F	R K, L)	Thin Dark Surface (S9) (LRR K, L)		
Depleted Below Dark Surface (A11)  Loamy Gleyed Matrix (F2)						Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Dark Surface (A12)  ———————————————————————————————————					Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Redox Dark Surface (F6)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
<del></del>							Red Parent Material (F21)		
<del></del>						Very Shallow Dark Surface (F22)			
Sandy Redox (S5)			Redox Depressions (F8)				Other (Explain in Remarks)		
Stripped Matrix (S6) Dark Surface (S7)			Marl (F10) ( <b>LRR K, L</b> )				— Other (Expi	alli ili Reiliaiks)	
Dark Sur	Tace (S7)								
3									
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
	ayer (if observed):								
Type: _									
Depth (ir	nches):						Hydric Soil Present?	Yes X No	
Remarks:									
	ected because domi	natad by (	ORI species standi	na watai	r and ahi	runt houn	danı		
Solis Hot coll	ected because domi	nated by v	JDL species, stariui	ng water	, and abi	iupi bouii	uaiy.		



Wetland G-R-S-16 - View facing northwest

Package 1C

**SITE PHOTOGRAPHS** 

**Champlain Hudson Power Express** 

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: GR-S-15 & 16 Upi
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): None Slope %:
Subregion (LRR or MLRA): LRR R Lat: 43-32-06N	Long: 73-24-26W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
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 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 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:
Gravel road/embankment adjacent to railroad tracks.	
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 (	
Sediment Deposits (B2)  Oxidized Rhizospheres (B2)	
Drift Deposits (B3) Presence of Reduced In	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Music Surface (C7)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Fxylain in Remove the Control of the Control	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
	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.	
I .	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2		·		Number of Dominant Species That Are OBL, FACW, or FAC:4(A)
3.         4.				Total Number of Dominant Species Across All Strata: 6 (B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:66.7%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Rhus typhina	10	Yes	UPL	FACW species 10 x 2 = 20
2. Rhamnus cathartica	10	Yes	FAC	FAC species40 x 3 =120
3. Cornus alba	10	Yes	FACW	FACU species 5 x 4 = 20
4.				UPL species 35 x 5 = 175
5.				Column Totals: 90 (A) 335 (B)
6.				Prevalence Index = B/A = 3.72
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Centaurea stoebe	20	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Euthamia graminifolia	15	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Setaria pumila	15	Yes	FAC	data in Remarks or on a separate sheet)
<del></del> -				Dual-law stir. History butin Manatation 1 (Francis)
4. Oenothera biennis	5	No No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ul><li>5. Hypericum perforatum</li><li>6</li></ul>	5	No	UPL	<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
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	•		
	a.c cc,			

Sampling Point: -R-S-15 & 16 U

Depth Matrix	Redo	x Feature	es				
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
Towns O. Communitation D. Doubling D.	M. D. dere d Matrice A	40. March			21 ti DI D	1 to to NA NA	tt
Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, N	/IS=IVIASI	ked Sand	Grains.	<sup>2</sup> Location: PL=Pore		
Hydric Soil Indicators:	5 5.	0 (	(00) (		Indicators for Prob	_	
Histosol (A1)	Polyvalue Belo		ce (S8) (I	LRR R,	2 cm Muck (A10		•
Histic Epipedon (A2)	MLRA 149B	•			Coast Prairie Re		•
Black Histic (A3)	Thin Dark Surf		-		· —		
Hydrogen Sulfide (A4)	High Chroma S				Polyvalue Below		
Stratified Layers (A5)	Loamy Mucky			R K, L)	Thin Dark Surfa		•
Depleted Below Dark Surface (A11)	Loamy Gleyed		<del>-</del> 2)		Iron-Manganese		
Thick Dark Surface (A12)	Depleted Matri				Piedmont Flood	•	
Sandy Mucky Mineral (S1)	Redox Dark Su	-	-		Mesic Spodic (T	A6) ( <b>MLRA 1</b> 4	I4A, 145, 149B
Sandy Gleyed Matrix (S4)	Depleted Dark	Surface	(F7)		Red Parent Mat	erial (F21)	
Sandy Redox (S5)	Redox Depress	sions (F8	3)		Very Shallow Da	ark Surface (F2	22)
Stripped Matrix (S6)	Marl (F10) ( <b>LR</b>	RK, L)			Other (Explain in	n Remarks)	
Dark Surface (S7)							
Indicators of hydrophytic vegetation and	wetland hydrology mเ	ust be pr	esent, ur	nless distu	urbed or problematic.		
Restrictive Layer (if observed):							
Type:							
Depth (inches):					Hydric Soil Present?	Yes	No X
					,		<del> </del>
Remarks:	vovor ourficially chao	mind to a	anaist of	aroual aa	saciated with the railroad		
Ground frozen so soils not observed. How	vever, surnicially obse	rved to d	OHSISI OI	graveras	ssociated with the railroad.		



Upland G-R-S-15 and G-R-S-16- View facing south

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X-1TTTI Wet
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-31-49N	Long: 73-24-32W Datum:
Soil Map Unit Name: OP - Orthents and Psamments	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	
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.)  Common reed 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	——————————————————————————————————————
X High Water Table (A2) Aquatic Fauna (B13) April Deposits (B45)	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)  Oxidized Rhizospheres of	
Drift Deposits (B3)  Presence of Reduced Inc.	——————————————————————————————————————
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	<del>_</del>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	: 5
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	: Wetland Hydrology Present? YesX No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Damada	
Remarks:	

lants.	Dominant	Indicator	1
% Cover	Species?	Status	Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC:1 (A)
			Total Number of Deminant
			Total Number of Dominant Species Across All Strata: 1 (B)
			(-)
			Percent of Dominant Species
<u> </u>	·		That Are OBL, FACW, or FAC:100.0% (A/E
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
)			OBL species 5 x 1 = 5
2	No	FACW	FACW species 92 x 2 = 184
			FAC species 0 x 3 = 0
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Prevalence Index = B/A = 1.95
			Hydrophytic Vegetation Indicators:
2	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
90	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			Troblematic Hydrophytic Vegetation (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 heigh
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
95	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
	- Total Gover		
)			<b>Woody vines</b> – All woody vines greater than 3.28 ft
			height.
·			Hydrophytic
	2 90 5	% Cover         Species?	% Cover Species? Status

		the de				tor or co	nfirm the absence of indic	cators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	5 .
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
								_
¹Type: C=Co	ncentration, D=Deple	tion RM	=Reduced Matrix N	 //S=Masl	ked Sand	Grains	<sup>2</sup> l ocation: PI =Por	re Lining, M=Matrix.
Hydric Soil II		7.1011, 1 1.11	rtoddodd Matrix, H	ne mae	itou ourie	· Oranio.		blematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfa	ce (S8) (I	RRR		10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		(00) (1	-IXIX IX,		Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surf		/I DD D	MI DA 1		eat or Peat (S3) (LRR K, L, R)
			High Chroma S		-		· —	
	Sulfide (A4)							ow Surface (S8) (LRR K, L)
	Layers (A5)	(444)	Loamy Mucky			K N, L)		face (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			se Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri					dplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su					(TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark				Red Parent Ma	
Sandy Re			Redox Depress		8)			Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK, L)			Other (Explain	in Remarks)
Dark Surf	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	ust be pr	esent, ur	nless distu	urbed or problematic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes X No
Remarks:	· <del></del>						-	
	ected hecause all don	ninant er	ecies have an indic	ator of F	- ACW an	d the wet	land boundary is abrupt.	
CONSTRUCTION	oted because an don	illiant op	colos nave an maio	ator or r	7.077 411	a the wet	iana boanaary to abrapt.	



Wetland G-R-X1-TTTT- View facing west.

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X-1TTTT Upi
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): None Slope %:
Subregion (LRR or MLRA): LRR R Lat: 43-31-49N	Long: 73-24-32W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	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	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.) Successional old field.	
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 Ir	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction i	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remai	<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:	

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Deminent Chasins
				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant Species Across All Strata: 2 (B)
·				(B)
·				Percent of Dominant Species
·				That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
Rhus typhina	5	Yes	UPL	FACW species 5 x 2 = 10
				FAC species 5 x 3 = 15
·				FACU species 20 x 4 = 80
				UPL species75 x 5 =375
·				Column Totals: 105 (A) 480 (B
				Prevalence Index = B/A = 4.57
				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%
. Hypericum perforatum	60	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Solidago canadensis	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportir
	5	No	FACU	data in Remarks or on a separate sheet)
Centaurea stoebe	5	No No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Verbascum thapsus	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Euthamia graminifolia	5	No	FAC_	be present, unless disturbed or problematic.
. Alliaria petiolata	5	No	<u>FACU</u>	Definitions of Vegetation Strata:
Phragmites australis	5	<u>No</u>	FACW	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, regardles
	100	=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
				height.
				Hydrophytic
				Vegetation Present? Yes No X
		=Total Cover		Present?
·				

Depth	Matrix		Redox	x Featur					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
		— -							
		— -							
		— -							
<del></del>	<del></del>						2		
	ncentration, D=Depletion	n, RM=	=Reduced Matrix, M	/IS=Masi	ked Sand	Grains.	<sup>2</sup> Location: PL=Por		
Hydric Soil In							Indicators for Pro	_	
Histosol (A	•	-	Polyvalue Belo		ce (S8) ( <b>I</b>	RR R,	2 cm Muck (A	10) ( <b>LRR K, L,</b> l	MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B	)			Coast Prairie F	Redox (A16) ( <b>Li</b>	RR K, L, R)
Black Hist	tic (A3)	-	Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 14	<b>19B</b> ) 5 cm Mucky P	eat or Peat (S3	) (LRR K, L, R)
Hydrogen	Sulfide (A4)		High Chroma S	Sands (S	311) ( <b>LRF</b>	R K, L)	Polyvalue Belo	w Surface (S8)	(LRR K, L)
Stratified I	Layers (A5)		Loamy Mucky I	Mineral	(F1) ( <b>LRF</b>	R K, L)	Thin Dark Surf	ace (S9) ( <b>LRR</b>	K, L)
Depleted !	Below Dark Surface (A1	11)	Loamy Gleyed	Matrix (	F2)		Iron-Manganes	se Masses (F12	2) (LRR K, L, R)
Thick Dar	k Surface (A12)	_	Depleted Matrix	x (F3)			Piedmont Floo	dplain Soils (F1	19) ( <b>MLRA 149</b>
	ala Minanal (C4)		Redox Dark Su	ırface (F	6)		Mesic Spodic	TA6) ( <b>MLRA 1</b> -	44A, 145, 149B
Sandy Mu	ıcky Mineral (S1)								
	eyed Matrix (S4)	-	 Depleted Dark	Surface	(F7)		Red Parent Ma	iterial (F21)	
	eyed Matrix (S4)	-						iterial (F21) Dark Surface (F	22)
Sandy Gle	eyed Matrix (S4)	-	Depleted Dark	sions (F				Oark Surface (F	22)
Sandy Gle Sandy Re Stripped M	eyed Matrix (S4) dox (S5) Matrix (S6)	- - -	Depleted Dark Redox Depress	sions (F			Very Shallow [	Oark Surface (F	22)
Sandy Gle	eyed Matrix (S4) dox (S5) Matrix (S6)	- - -	Depleted Dark Redox Depress	sions (F			Very Shallow [	Oark Surface (F	22)
Sandy Gle Sandy Re Stripped M Dark Surfa	eyed Matrix (S4) dox (S5) Matrix (S6) ace (S7)	- - - and we	Depleted Dark Redox Depress Marl (F10) (LR	sions (F8 R K, L)	8)	ıless distu	Very Shallow I Other (Explain	Oark Surface (F	22)
Sandy Gle Sandy Re Stripped M Dark Surfa	eyed Matrix (S4) dox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a	- - - and we	Depleted Dark Redox Depress Marl (F10) (LR	sions (F8 R K, L)	8)	ıless distu	Very Shallow I Other (Explain	Oark Surface (F	22)
Sandy Gle Sandy Re Stripped N Dark Surfa	eyed Matrix (S4) dox (S5) Matrix (S6) ace (S7)	and we	Depleted Dark Redox Depress Marl (F10) (LR	sions (F8 R K, L)	8)	ıless distu	Very Shallow I Other (Explain	Oark Surface (F	22)
Sandy Gle Sandy Re Stripped M Dark Surfa  Indicators of B Restrictive La Type:	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):	and we	Depleted Dark Redox Depress Marl (F10) (LR	sions (F8 R K, L)	8)	ıless distu	Very Shallow [ Other (Explain	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped N Dark Surfa	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):	- - - and we	Depleted Dark Redox Depress Marl (F10) (LR	sions (F8 R K, L)	8)	ıless distu	Very Shallow I Other (Explain	Oark Surface (F	22)
Sandy Gle Sandy Re Stripped N Dark Surfa  3Indicators of I Restrictive La Type: Depth (inc	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):	and we	Depleted Dark Redox Depress Marl (F10) (LR	sions (F8 R K, L)	8)	iless distu	Very Shallow [ Other (Explain	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (incomplete)	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (incomplete) Remarks:	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (incomplete)	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (incomplete)	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  3Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	
Sandy Gle Sandy Re Stripped M Dark Surfa  Indicators of M Restrictive La Type: Depth (inco	eyed Matrix (S4) idox (S5) Matrix (S6) ace (S7) hydrophytic vegetation a ayer (if observed):		Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> etland hydrology mu	sions (F8 R K, L)	8) resent, ur		Very Shallow [ Other (Explain  rbed or problematic.  Hydric Soil Present?	Dark Surface (F in Remarks)	



Upland G-R-X1-TTTT- View facing southeast.

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: G.R.X.1SSSS Wet
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-31-47N	Long: 73-24-32W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: PSS1
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 distur	rbed? Are "Normal Circumstances" present? Yes X No
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?  Hydric Soil Present?  Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
Shrub 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) Water-Stained Leaves (	——————————————————————————————————————
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	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4)  — Recent Iron Reduction in  Thin Music Surface (C7)	. , , , ,
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Explain in Remove	<del></del>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar X Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
	A FAC-Neutral Test (D5)
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):	:0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	pyious inspections) if available.
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), il avaliable:
Remarks:	

T. (D. ) (D. ) (D. )	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	<u>Status</u>	Dominance Test worksheet:
Fraxinus pennsylvanica	5	Yes	FACW	Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 0 x1 = 0
1. Cornus alba	90	Yes	FACW	FACW species 95 x 2 = 190
2				FAC species 0 x 3 = 0
		· ——		FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
·		· ——		
5.				Column Totals: 95 (A) 190 (B)
6.		· ——		Prevalence Index = B/A = 2.00
7				Hydrophytic Vegetation Indicators:
	90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%
1				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12		=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Mondy Vine Stratum (Diet eine 201		-		or size, and woody plants less than 5.20 it 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 separ	ate sheet.)			

Sampling Point: -R-X-1SSSS W

		the de				tor or co	nfirm the absence of indic	ators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	5
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
							_	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	l Grains.	<sup>2</sup> Location: PL=Pore	e Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for Pro	blematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Polyvalue Belo		ce (S8) ( <b>I</b>	_RR R,	2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B					Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surf		-		· —	eat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					w Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			R K, L)		ace (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			e Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri		.0)			dplain Soils (F19) ( <b>MLRA 149B</b> )
_	ucky Mineral (S1)		Redox Dark Su					TA6) ( <b>MLRA 144A, 145, 149B</b> )
_	eyed Matrix (S4) edox (S5)		Depleted Dark Redox Depress				Red Parent Ma	Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	,	5)		Other (Explain	
Dark Sur	` '		Wan (1 10) ( <b>E</b> 10	, <b>_</b> /			Other (Explain	iii remano)
	(3.)							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	ust be pr	esent, ur	ıless distu	urbed or problematic.	
	ayer (if observed):		,				·	
Type:								
Depth (in			<u> </u>				Hydric Soil Present?	Yes X No
Remarks:			<u> </u>			!		
	ected because domin	ated by F	FACW, standing wa	ter prese	ent, and b	oundary	abrupt.	



Wetland G-R-X1-SSSS - View facing west/northwest

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X-IRRRR We
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-31-47N	Long: 73-24-32W Datum: WSG 84
Soil Map Unit Name: OP - Orthents and Psamments	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 disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problems	
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.) Cattail 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	
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 Presence of Reduced Iron	— · · · —
Drift Deposits (B3) Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction ir	<u> </u>
Iron Deposits (B5)  Thin Muck Surface (C7)	· / · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	<del></del>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	<u>_</u>
Surface Water Present? Yes X No Depth (inches):	: 3
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks.	

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.				Total Number of Dominant Species Across All Strata: (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 species95 x 1 =95		
1. Cornus alba	15	Yes	FACW	FACW species15 x 2 =30		
2.				FAC species0 x 3 =0		
3.				FACU species 0 x 4 = 0		
4.				UPL species 0 x 5 = 0		
5.				Column Totals: 110 (A) 125 (B)		
6				Prevalence Index = B/A = 1.14		
7				Hydrophytic Vegetation Indicators:		
1.	 15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Harb Stratum (Diet size: E!		- Total Cover		<u> </u>		
Herb Stratum (Plot size: 5' )	00		0.01	X 2 - Dominance Test is >50%		
1. Typha angustifolia	90	Yes	OBL	X 3 - Prevalence Index is ≤3.0¹		
<ol> <li>Lythrum salicaria</li> <li></li></ol>	5	No	OBL_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting 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.				Tree – Woody plants 3 in. (7.6 cm) or more in		
9				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.		
12.				Herb – All herbaceous (non-woody) plants, regardless		
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in		
1				height.		
2						
3.				Hydrophytic Vegetation		
4.				Present? Yes X No		
		=Total Cover				
Remarks: (Include photo numbers here or on a separ						
Remarks. (include prioto numbers here of on a separ	ate sneet.)					

Sampling Point: -R-X-1RRRR W

· · · · · · · · · · · · · · · · · · ·	•	the dep				tor or co	nfirm the absence of indic	ators.)	
						. 2	<b>-</b> .	5	
Depth (inches) Co	Matrix olor (moist)	%	Color (moist)	x Featur		Loc <sup>2</sup>	Texture	Remarks	
<sup>1</sup> Type: C=Concentr	ation D=Denle	tion RM	=Reduced Matrix N	 AS=Masl	ed Sand	Grains	<sup>2</sup> l ocation: PI =Pore	e Lining M=Matrix	
Hydric Soil Indicate  Histosol (A1)  Histic Epipedor  Black Histic (A3)  Hydrogen Sulfice  Stratified Layer  Depleted Below  Thick Dark Surf  Sandy Mucky M  Sandy Gleyed I  Sandy Redox (3)  Stripped Matrix  Dark Surface (5)	(A2) 3) de (A4) s (A5) v Dark Surface (face (A12) dineral (S1) Matrix (S4) (S6)	(A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matri: Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	) Sace (S9) Sands (S Mineral ( Matrix (I x (F3) urface (F Surface sions (F8	(LRR R, 111) (LRF (F1) (LRF F2) 6) (F7)	MLRA 14 R K, L)	Indicators for Problematic Hydric Soils  2 cm Muck (A10) (LRR K, L, MLRA 1  Coast Prairie Redox (A16) (LRR K, L  5 cm Mucky Peat or Peat (S3) (LRR I  Polyvalue Below Surface (S8) (LRR I		
<sup>3</sup> Indicators of hydro	ohytic vegetatio	n and we	etland hydrology mu	ust be pr	esent, un	less distu	rbed or problematic.		
Restrictive Layer (	if observed):			-			Hydric Soil Present?	Yes <u>X</u> No	
Remarks: Soils not collected to	oecause domina	ated by C	)BL and FACW and	d wetland	d boundar	ry is abrup	ot.		



Wetland G-R-X1-RRRR - View facing southwest

Phase 1

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/6/22
Applicant/Owner: TDI	 State: NY Sampling Point: G.R.X.1RRRR U∌
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
• , ,	relief (concave, convex, none): Convex Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-31-46N	Long: 73-24-32W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	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 old field. This data plot represents the upland adjacent to we	tland plots G-R-X-1RRRR and G-R-X-1SSSS.
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	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Ire	<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:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1.	70 00001	Ореско:	<u> </u>				
2.				Number of Dominant Species That Are OBL, FACW, or FAC:0(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 species 0 x 1 = 0			
1. Rhus typhina	2	No	<u>UPL</u>	FACW species 2 x 2 = 4			
2. Cornus alba	2	No	FACW	FAC species0 x 3 =0			
3.				FACU species 85 x 4 = 340			
4				UPL species 17 x 5 = 85			
5.				Column Totals: 104 (A) 429 (B)			
6.				Prevalence Index = B/A = 4.13			
7.				Hydrophytic Vegetation Indicators:			
	4	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%			
	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
				4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
2. Oenothera biennis	10	No No	FACU	data in Remarks or on a separate sheet)			
3. Hypericum perforatum	10	No	UPL				
4. Verbascum thapsus	5	No	<u>UPL</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
<ul><li>5. Alliaria petiolata</li><li>6.</li></ul>	5	No No	FACU	<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 and greater than or equal to 3.28 ft (1 m) tall.			
12.				Hart All back as a second of a			
	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			
1				height.			
2.				Hydrophytic			
3.				Vegetation			
4				Present? Yes No _X			
		=Total Cover					
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

Sampling Point: -R-X-1RRRR U

Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks
<sup>I</sup> Type: C=Co	oncentration, D=Deple	tion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=M	/latrix.
Hydric Soil I	ndicators:						Indicators for	r Problematic Hyd	lric Soils³:
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm Muc	k (A10) ( <b>LRR K, L</b>	, MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast Pra	airie Redox (A16) (I	LRR K, L, R)
Black His	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	<b>49B</b> ) 5 cm Muc	ky Peat or Peat (S	3) (LRR K, L, R)
— Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	S11) ( <b>LRI</b>	R K, L)	Polyvalue	Below Surface (S	8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b> I	R K, L)	Thin Dark	Surface (S9) (LRI	R K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		ganese Masses (F1	•
	rk Surface (A12)	,	Depleted Matri		,			, Floodplain Soils (F	
	ucky Mineral (S1)		Redox Dark Su		<del>.</del> 6)			odic (TA6) ( <b>MLRA</b>	
	leyed Matrix (S4)		Depleted Dark		-			nt Material (F21)	
	edox (S5)		Redox Depres					low Dark Surface (	E22\
	Matrix (S6)				0)			plain in Remarks)	(1 22)
	` ,		Marl (F10) ( <b>LR</b>	K K, L)			— Other (Ex	piairi iri Kerriarks)	
Dark Sur	face (S7)								
3, ,, ,									
	hydrophytic vegetatio	n and w	etland hydrology mi	ust be pr	esent, ur	nless dist	urbed or problematic.		
	ayer (if observed):								
Type: _									
Depth (ir	nches):						Hydric Soil Present	t? Yes	No X
Remarks:									
	frozen so soils not doo	cumente	d						
Oroana was	1102011 00 00110 1101 401	Jannonto	· · ·						



Upland G-R-X1-RRRR and G-R-X1-SSSS - View facing south/southwest

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Whitehall/washington Sampling Date: 1/6/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X-1SSS We
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-31-31N	Long: 73-24-37W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	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 disturl	bed? Are "Normal Circumstances" present? Yes X No
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) Water-Stained Leaves (E	
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 Presence of Reduced Iron	
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>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	<u>_</u>
Surface Water Present? Yes X No Depth (inches):	: 1
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks.	

	Absolute	Dominant	Indicator				
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:			
. Fraxinus pennsylvanica	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)			
				Total Number of Dominant Species Across All Strata: 5 (B)			
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B			
				Prevalence Index worksheet:			
	5	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 90 x 1 = 90			
. Cornus alba	5	Yes	FACW	FACW species 12 x 2 = 24			
Fraxinus pennsylvanica	2	Yes	FACW	FAC species 0 x 3 = 0			
				FACU species 0 x 4 = 0			
				UPL species 0 x 5 = 0			
				Column Totals: 102 (A) 114 (B			
				Prevalence Index = B/A = 1.12			
·				Hydrophytic Vegetation Indicators:			
	7	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
Carex lacustris	45	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Symphyotrichum puniceum	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporti			
3. Lythrum salicaria	15	No	OBL	data in Remarks or on a separate sheet)			
Epilobium coloratum	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.				-   <del></del>			
				<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			
0							
4				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
2.							
	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size: 30' )		10101 00101					
·				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
				noight.			
 3.				Hydrophytic			
				Vegetation Present? Yes X No			
		=Total Cover		165 <u>X</u> 165 <u>X</u>			
1							

Depth	Matrix			(Featur				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	2.5Y 2.5/1	95	10YR 3/4	5	C	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
5-11	N 2.5/	60	10YR 4/6	_10	C	m	Loamy/Clayey	Prominent redox concentrations
			10YR 5/8	30	C	m		
11-16	N 3/	65	10YR 5/6	35	C	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
		<u> </u>			_			
				_	_			
				_	_			
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	 IS=Masl	 ked Sand	Grains.	²Location: P	 PL=Pore Lining, M=Matrix.
Black His Hydroger Stratified Depleted Thick Dan Sandy Mi Sandy Gl Sandy Re Stripped Dark Surn  Indicators of Restrictive L	A1) ipedon (A2) itic (A3) i Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Below MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark Pedox 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)	2 cm Mu ? Coast P 49B) 5 cm Mu Polyvalu Thin Dai Iron-Mar Piedmor Mesic S Red Par Very Shi	or Problematic Hydric Soils <sup>3</sup> :  uck (A10) (LRR K, L, MLRA 149B)  rairie Redox (A16) (LRR K, L, R)  ucky Peat or Peat (S3) (LRR K, L, R)  ue Below Surface (S8) (LRR K, L)  rk Surface (S9) (LRR K, L)  nganese Masses (F12) (LRR K, L, R)  nt Floodplain Soils (F19) (MLRA 149B)  podic (TA6) (MLRA 144A, 145, 149B)  rent Material (F21)  allow Dark Surface (F22)  explain in Remarks)
Type: _ Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
	n is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland G-R-X1-SSS - View facing south



Wetland G-R-X1-SSS - Soils

## **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1.6.22
Applicant/Owner: TDI	 State: NY Sampling Point: ദേശ-1sss ⊍i
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-31-31N	Long: 73-24-37W Datum: WGS 84
Soil Map Unit Name: OP - Orthents and Psamments	NWI classification: NA
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?  Hydric Soil Present?  Yes No X  Yes No X	within a Wetland? Yes No _X
Wetland Hydrology Present?  Yes  No X	If yes, optional Wetland Site ID:
Successional old field.	
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 (	
Sediment Deposits (B2)  Oxidized Rhizospheres  Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	<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 Remark Outlines (C7)	<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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator				
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:			
·				Number of Dominant Species			
				That Are OBL, FACW, or FAC: 1 (A)			
				Total Number of Dominant Species Across All Strata: 3 (B)			
				(E)			
				Percent of Dominant Species			
				That Are OBL, FACW, or FAC: 33.3% (A/E			
·		<del></del>		Prevalence Index worksheet:			
	-	=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0			
Rhamnus cathartica	5	Yes	FAC	FACW species 0 x 2 = 0			
				FAC species 5 x 3 = 15			
·				FACU species30 x 4 =120			
				UPL species 70 x 5 = 350			
				Column Totals: 105 (A) 485 (E			
	_			Prevalence Index = B/A = 4.62			
				Hydrophytic Vegetation Indicators:			
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
erb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%			
Centaurea stoebe	50	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
				data in Remarks or on a separate sheet)			
Hypericum perforatum	15	No No	UPL				
Daucus carota	5	No	<u>UPL</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
·				<ul> <li><sup>1</sup>Indicators of hydric soil and wetland hydrology mus</li> </ul>			
·				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			
0				Sapling/shrub – Woody plants less than 3 in. DBH			
1.				and greater than or equal to 3.28 ft (1 m) tall.			
2.				Harb. All banks as a configuration of the configura			
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles 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.			
				neight.			
	-			Hydrophytic			
· <u></u>	-			Vegetation			
		=Total Cover		Present? Yes No _X			
•							

		o the de				tor or co	onfirm the absence of ind	cators.)	
Depth	Matrix			x Featur		. 2	<b>-</b> .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix	ζ.
Hydric Soil I	ndicators:						Indicators for Pr	oblematic Hydric	Soils <sup>3</sup> :
Histosol (	(A1)		Polyvalue Belo	w Surfa	ce (S8) ( <b>I</b>	RR R,	2 cm Muck (A	.10) ( <b>LRR K, L, ML</b>	RA 149B)
	ipedon (A2)		MLRA 149B		, , ,			Redox (A16) (LRR	
Black His			Thin Dark Surf		(LRR R	MLRA 1		Peat or Peat (S3) (L	•
	n Sulfide (A4)		High Chroma S		-		<u> </u>	ow Surface (S8) (L	•
	Layers (A5)		Loamy Mucky					face (S9) ( <b>LRR K</b> ,	
	Below Dark Surface	(111)				<b>、                                    </b>			
		(A11)	Loamy Gleyed		F2)			ese Masses (F12) (	
	rk Surface (A12)		Depleted Matri		.0)			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		
_	edox (S5)		Redox Depress		8)			Dark Surface (F22)	)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)			Other (Explai	n in Remarks)	
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	ust be pr	esent, ur	less dist	urbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
-	ches):						Hydric Soil Present?	Yes	No X
Deptii (iii							Hydric 3011 Fresent:		<u> </u>
Remarks:									
Ground froze	n so soils not docume	ented.							



Upland G-R-X1-SSS - View facing south

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22
Applicant/Owner: TDI	State: NY Sampling Point: G.R.X1-00 Wet
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:
- ' -	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat:	Long: Datum:
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrology naturally 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 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.)	
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)
High Water Table (A2) Aquatic Fauna (B13)	X 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	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction ir	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) — Thin Muck Surface (C7)	
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):	: 0.5
Water Table Present? Yes No x Depth (inches):	
Saturation Present? Yes x No Depth (inches):	: 0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

ree Stratum (Plot size: 30')	Absolute	Dominant	Indicator					
	% Cover	Species?	Status	Dominance Test worksheet:				
Fraxinus pennsylvanica	75	Yes	FACW_	Number of Dominant Species				
Populus deltoides	8	No	<u>FAC</u>	That Are OBL, FACW, or FAC:3 (A)				
				Total Number of Dominant				
				Species Across All Strata: 4 (B)				
				Percent of Dominant Species				
				That Are OBL, FACW, or FAC: 75.0% (A/E				
		Prevalence Index workshee						
	83	=Total Cover		Total % Cover of: Multiply by:				
apling/Shrub Stratum (Plot size: 15'	)			OBL species65 x 1 =65				
Fraxinus pennsylvanica	30	Yes	FACW	FACW species 107 x 2 = 214				
Lonicera tatarica	20	Yes	FACU	FAC species13 x 3 =39				
Rhamnus cathartica	5	No	FAC	FACU species 20 x 4 = 80				
				UPL species0 x 5 =0				
				Column Totals: 205 (A) 398 (E				
				Prevalence Index = B/A =1.94				
				Hydrophytic Vegetation Indicators:				
	55	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
erb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%				
Carex stricta	65	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
Onoclea sensibilis	2	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporti				
				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 heigh				
).				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				
	67	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
	)			Woody vines – All woody vines greater than 3.28 ft				
oody Vine Stratum (Plot size: 30'				height.				
				Hydrophytic				
				Hydrophytic Vegetation Present? Yes X No				

Profile Desc Depth	ription: (Describe t Matrix	o the de	•	<b>iment th</b>		ator or co	onfirm the absence of	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 4/2	98	7.5YR 3/4	2	С	M	Loamy/Clayey	Distinct redox concentrations
11-16	7.5YR 5/2	55	7.5YR 4/6	45	С	М	Loamy/Clayey	Prominent redox concentrations
<u> </u>								
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RN	 /I=Reduced Matrix, М	IS=Masl	ked Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sui	(A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) I Below Dark Surface ark Surface (A12) lucky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed X Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR)	) ace (S9) ands (S Mineral ( Matrix ( x (F3) urface (F Surface sions (F8 R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Mu ? Coast Pr 49B) 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Mesic Sp Red Pare Very Sha	or Problematic Hydric Soils <sup>3</sup> :  ack (A10) (LRR K, L, MLRA 149B)  rairie Redox (A16) (LRR K, L, R)  acky Peat or Peat (S3) (LRR K, L, R)  be Below Surface (S8) (LRR K, L)  ck Surface (S9) (LRR K, L)  aganese Masses (F12) (LRR K, L, R)  at Floodplain Soils (F19) (MLRA 149B)  bodic (TA6) (MLRA 144A, 145, 149B)  ent Material (F21)  allow Dark Surface (F22)  xplain in Remarks)
Restrictive I	_ayer (if observed):							
Type:	none	e						
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 G-R-X1-OO- View facing west



Wetland G-R-X1-OO - Soils

## **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22
Applicant/Owner: TDI	 State: NY Sampling Point: <sub>G-R-X1-00</sub> u <sub>r</sub>
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): none
Subregion (LRR or MLRA): LRR R Lat:	Long: Datum:
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soilx _, or Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate report.)	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Ballast/ Successional Old Field  HYDROLOGY	
	Consendant India share (minimum of the manufact)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	<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 (	<del></del>
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3)  Presence of Reduced In	
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 Remai	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No x Depth (inches)	e l
Water Table Present? Yes No x Depth (inches)	
Saturation Present? Yes No x Depth (inches)	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Betula populifolia	10	Yes	FAC	Number of Dominant Species			
				That Are OBL, FACW, or FAC: 2 (A)			
				Total Number of Dominant			
				Species Across All Strata: 4 (B)			
· <u></u>				Percent of Dominant Species			
·				That Are OBL, FACW, or FAC:50.0% (A/B			
·				Prevalence Index worksheet:			
	10	=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0			
Lonicera tatarica	10	Yes	FACU	FACW species 0 x 2 = 0			
Prunus serotina	2	No	FACU	FAC species35 x 3 =105			
				FACU species 67 x 4 = 268			
				UPL species 5 x 5 = 25			
				Column Totals: 107 (A) 398 (B			
				Prevalence Index = B/A = 3.72			
				Hydrophytic Vegetation Indicators:			
	12	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
erb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%			
Setaria pumila	25	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Schizachyrium scoparium	50	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
Verbascum thapsus	5	No No	UPL	data in Remarks or on a separate sheet)			
Fragaria virginiana	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
				<del></del>			
				<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 2 in (7.6 cm) or more in			
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height			
o		· <u></u>		Sapling/shrub – Woody plants less than 3 in. DBH			
1.				and greater than or equal to 3.28 ft (1 m) tall.			
2.				Hart All hart areas (comments a lands or consults			
	85	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles 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					

Profile Desc Depth	ription: (Describe t Matrix	o the de		<b>ument tl</b> x Featur		ator or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(monoc)					<u>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		- TOXIGIO	remane
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 149B		( - / (	,		airie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi			Thin Dark Surf	•	(I RR R	MI RA 1		cky 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)	(8.4.4)	Loamy Mucky			K N, L)		k Surface (S9) (LRR K, L)
	I Below Dark Surface	e (A11)	Loamy Gleyed		F2)			ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri					t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su	ırface (F	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)
Sandy R	edox (S5)		Redox Depres	sions (F	8)		Very Sha	illow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK, L)			Other (Ex	xplain in Remarks)
Dark Sui	face (S7)			•			<del></del>	
	,							
<sup>3</sup> Indicators of	hvdrophytic vegetati	on and w	etland hydrology mi	ıst be pr	esent ur	nless dist	urbed or problematic.	
	_ayer (if observed):	on and n	odana nyarology mi	301 DO P1	000111, 41	nooc dict	arboa or problematic.	
	balla	ot						
Type:		St						
Depth (ir	nches):	0					Hydric Soil Presen	it? Yes No _X_
Remarks:	-							
	m is revised from No	rthcentra	l and Northeast Reg	ional Su	pplemen	t Version	2.0 to include the NRC	S Field Indicators of Hydric Soils,
	2015 Errata. (http://w							· - · · · · · · · · · · · · · · · · · ·
Ballast- no se	, ,		3	_			,	



Upland G-R-X1-OO- View facing south

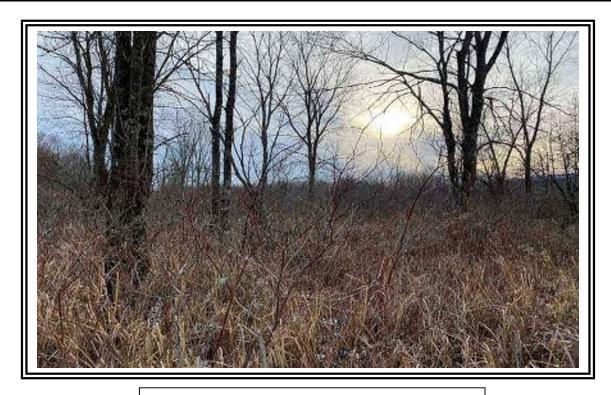
SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22						
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X1-AA Wet						
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 0						
	Long: Datum:						
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: PSS						
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	<u></u>						
SUMMARY OF FINDINGS – Attach site map showing sam							
Sommart of Findings - Attach site map showing same	Thing point locations, transects, important leatures, 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.)							
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 (	<u> </u>						
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	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced In	ron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)  Recent Iron Reduction in	· / _ · · · · · · · · · · · · · · · · ·						
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 x No Depth (inches)							
Saturation Present? Yes x No Depth (inches) (includes capillary fringe)	:0 Wetland Hydrology Present? Yes _X No						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:						
Describe recorded bata (oreall gauge, memoring well, deltai priotes, pre	strode inspections, in available.						
Remarks:							

Tree Stratum (Diet size: 201	Absolute	Dominant	Indicator	Deminance Test weeksheet			
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:			
Fraxinus pennsylvanica	40	Yes	FACW	Number of Dominant Species			
2.				That Are OBL, FACW, or FAC:3(A)			
3.		· ——		Total Number of Dominant			
4				Species Across All Strata: 3 (B)			
5				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC:100.0%(A/B)			
7				Prevalence Index worksheet:			
	40	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species75 x 1 =75			
1. Cornus alba	55	Yes	FACW	FACW species 116 x 2 = 232			
2. Cornus racemosa	5	No	FAC	FAC species 5 x 3 = 15			
3. Fraxinus pennsylvanica	6	No	FACW	FACU species0 x 4 =0			
4.				UPL species0 x 5 =0			
5				Column Totals: 196 (A) 322 (B)			
6.				Prevalence Index = B/A =1.64			
7.				Hydrophytic Vegetation Indicators:			
_	66	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
1. Symphyotrichum novae-angliae	15	No	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Carex lacustris	75	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3.				data in Remarks or on a separate sheet)			
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6				be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8				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			
	90	=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 separ	rate sheet )	-		1			
Tremane. (morage priore numbers here of on a separ	ato oncot.)						

Sampling Point: G-R-X1-AA We

Depth	cription: (Describe t Matrix	o the de		ı <b>ment t</b> l ∈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	
0-5	10YR 2/1	65	7.5YR 4/6	35	С		Loamy/Clayey	Prominent redox concentrations	
5-16	5GY 5/1	85	7.5YR 5/8	15		PL	Loamy/Clayey	Prominent redox concentrations	
¹Type: C=C	oncentration, D=Depl	etion, RN	 //=Reduced Matrix. M	 IS=Mas	ked San	Grains.	2Location: P	L=Pore Lining, M=Matrix.	
			,					or Problematic Hydric Soils <sup>3</sup> :	
Hydric Soil Indicators:  Histosol (A1)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S9) (LRR R, MLRA)  High Chroma Sands (S11) (LRR K, L)  Loamy Mucky Mineral (F1) (LRR K, L)  X Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  X Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Marl (F10) (LRR K, L)					, MLRA 1 R K, L) R K, L)	2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)			
	f nydropnytic vegetati Layer (if observed):	on and v	vetland hydrology mu	ist be pi	resent, u	niess dist	urbed or problematic.		
Type:	none	е							
Depth (i	nches):						Hydric Soil Prese	nt? Yes_X No	
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,	



Wetland G-R-X1-AA (PSS)- View facing south



Wetland G-R-X1-AA (PSS)- Soils

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22						
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X1-AA Wet						
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 0						
	Long: Datum:						
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: PEM						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly distur							
Are Vegetation, Soil, or Hydrology naturally problems	<u></u>						
SUMMARY OF FINDINGS – Attach site map showing sam							
The state of the s							
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.)							
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 (	<u> </u>						
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	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced In	ron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Recent Iron Reduction in							
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 x No Depth (inches)							
Saturation Present? Yes x No Depth (inches)	:0 Wetland Hydrology Present? Yes _X No						
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre							
Describe Necorded Data (stream gauge, monitoring well, aerial priotos, pre	sylous inspections), if available.						
Remarks:							

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30' )	76 COVEI	Species?	Status	Dominance Test worksheet.
2.				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3. 4.				Total Number of Dominant Species Across All Strata:3(B)
<ul><li>5.</li><li>6.</li></ul>		· ———		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 100 x 1 = 100
1. Cornus alba	5	Yes	FACW	FACW species 15 x 2 = 30
2. Cornus racemosa	2	Yes	FAC	FAC species 2 x 3 = 6
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 117 (A) 136 (B)
6				Prevalence Index = B/A = 1.16
7				Hydrophytic Vegetation Indicators:
<i>1.</i>	7	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		10101 00101		X 2 - Dominance Test is >50%
Lythrum salicaria	2	No	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Onoclea sensibilis	5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	5	No No	FACW	data in Remarks or on a separate sheet)
				Dual-law stir. History by the Manatakian 1 (Francis)
4. Carex lacustris	98	Yes	OBL	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.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				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.
12.				
· · ·	110	=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' )		Total Gover		
· · · · · · · · · · · · · · · · · · ·				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 separ	rate sheet.)			

Sampling Point: G-R-X1-AA We

Depth	cription: (Describe t Matrix	o the de		ı <b>ment t</b> l ∈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	
0-5	10YR 2/1	65	7.5YR 4/6	35	С		Loamy/Clayey	Prominent redox concentrations	
5-16	5GY 5/1	85	7.5YR 5/8	15		PL	Loamy/Clayey	Prominent redox concentrations	
¹Type: C=C	oncentration, D=Depl	etion, RN	 //=Reduced Matrix. M	 IS=Mas	ked San	Grains.	2Location: P	L=Pore Lining, M=Matrix.	
			,					or Problematic Hydric Soils <sup>3</sup> :	
Hydric Soil Indicators:  Histosol (A1)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S9) (LRR R, MLRA)  High Chroma Sands (S11) (LRR K, L)  Loamy Mucky Mineral (F1) (LRR K, L)  X Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  X Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Marl (F10) (LRR K, L)					, MLRA 1 R K, L) R K, L)	2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)			
	f nydropnytic vegetati Layer (if observed):	on and v	vetland hydrology mu	ist be pi	resent, u	niess dist	urbed or problematic.		
Type:	none	е							
Depth (i	nches):						Hydric Soil Prese	nt? Yes_X No	
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,	



Wetland G-R-X1-AA (PEM)- View facing west



Wetland G-R-X1-AA (PEM) - Soils

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Whitehall/Washington Sampling Date: 1/5/22
Applicant/Owner: TDI	State: NY Sampling Point: G-R-X1-AA Up
Investigator(s): N. Frazer, J. Greaves	Section, Township, Range:
	relief (concave, convex, none): none Slope %: 2
Subregion (LRR or MLRA): LRR R Lat:	Long: Datum:
Soil Map Unit Name: Limerick silt loam (Lm)	NWI classification: N/A
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	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes NoX	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:
Railroad Embankment/ Upland Scrub Shrub/ Successional Old Field	
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 In	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in  Thin Music Surface (C7)	
Iron Deposits (B5) — Thin Muck Surface (C7)  Injuridation Visible on Aerial Imageny (B7) — Other (Explain in Penns	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
	AC-Neutral Test (D3)
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)	
Saturation Present? Yes No _x Depth (inches) (includes capillary fringe)	:   Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
Describe Resorded Bata (stream gauge, monitoring well, dental photos, pre	svious inspections), it available.
Remarks:	

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1.	70 COVE	Оресіез:		Dominance rest worksneet.				
		<u> </u>		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)				
2								
4.				Total Number of Dominant Species Across All Strata:  6 (B)				
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size:15' )				OBL species 0 x 1 = 0				
1. Rhus typhina	25	Yes	UPL	FACW species 5 x 2 = 10				
2. Lonicera tatarica	15	Yes	FACU	FAC species 0 x 3 = 0				
3. Cornus alba	5	No	FACW	FACU species 50 x 4 = 200				
4.				UPL species 25 x 5 = 125				
5.				Column Totals: 80 (A) 335 (B)				
6.				Prevalence Index = B/A = 4.19				
7.				Hydrophytic Vegetation Indicators:				
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%				
1. Cirsium arvense	8	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
2. Schizachyrium scoparium	15	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
Oenothera biennis	7	Yes	FACU	data in Remarks or on a separate sheet)				
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
6.				be present, unless disturbed or problematic.				
7				Definitions of Vegetation Strata:				
8.				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				
	30	=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. Vitis aestivalis	5	Yes	FACU	height.				
2.								
3.				Hydrophytic Vegetation				
4.				Present? Yes No X				
	5	=Total Cover						
Remarks: (Include photo numbers here or on a sepa	rate sheet )	•						
The state of the s								

Sampling Point: G-R-X1-AA Up

Depth	ription: (Describe) Matrix	to the de	•	u <b>ment t</b> i x Featur		ator or co	onfirm the absence o	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
()			(,		-71					
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion RM	M=Reduced Matrix N	 2cM=21	ked Sand		2l ocation: F		n M=Matrix	
Hydric Soil		Ction, raiv	I-Reduced Matrix, N	no-ivias	Red Gark	J Oranis.		or Problemat		oile <sup>3</sup> :
•			Dobavoluo Polo	w Surfo	00 (89) (	I DD D				
— Histosol			Polyvalue Belo		ce (So) (	LKK K,		uck (A10) ( <b>LR</b>		•
	pipedon (A2)		MLRA 149B	,				rairie Redox (		•
Black Hi	` '		Thin Dark Surf				· —	ucky Peat or P		•
	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRI</b>	R K, L)	Polyvalı	ue Below Surfa	ace (S8) ( <b>LR</b>	RK, L)
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Da	rk Surface (S9	9) ( <b>LRR K, L</b>	)
Depleted	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Ma	nganese Mass	ses (F12) ( <b>Li</b>	RR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmo	nt Floodplain S	Soils (F19) ( <b>I</b>	MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic S	podic (TA6) (	<b>MLRA 144A</b> ,	145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (I	F21)	
	ledox (S5)		Redox Depress					allow Dark Su	-	
	Matrix (S6)		Marl (F10) ( <b>LR</b>		,			Explain in Rem	` '	
	rface (S7)			,						
Bark 6a	11400 (07)									
3Indicators of	f hydronhytic vegetat	ion and w	etland hydrology mi	iet he ni	recent III	alace diet	urbed or problematic.			
	Layer (if observed):	ion and w	retiand hydrology mit	ust be pi	esent, ui	iless dist	I			
	• ,	-4								
Type:	balla	ıst								
Depth (ii	nches):	0					Hydric Soil Prese	nt? Y	es	No X
Remarks:							l			
	m is revised from No	rthcentra	l and Northeast Red	ional Su	pplemen	t Version	2.0 to include the NR	CS Field Indic	ators of Hvd	ric Soils.
	2015 Errata. (http://w								, -	,
Ballast- no s			· ·	_			, _ ,			



**Upland G-R-X1-AA- View facing north** 

SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/10/21					
Applicant/Owner: CHPE	State: NY Sampling Point: GR-X-W					
Investigator(s): KW, KS	Section, Township, Range: Whitehall					
Landform (hillside, terrace, etc.): Toeslope Local I	relief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,48',05.05"N	Long: 73°,42',90.84"W Datum:					
Soil Map Unit Name: Kingsbury Silty Clay/Vergennes Silty Clay Loam	NWI classification: PEM, PFO/SS					
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 problema	ttic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc					
Hydrophytic Vegetation Present? Yes X No	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.)						
(Explain allomains procedures in a separate report)						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) X Water-Stained Leaves (B12)						
High Water Table (A2)  Aquatic Fauna (B13)  Augustic (A2)  Augustic (A2)	Moss Trim Lines (B16)					
Saturation (A3)  Marl Deposits (B15)  Hadragen Sulfide Oder (Ca)	Dry-Season Water Table (C2)					
Water Marks (B1)						
Sediment Deposits (B2)  Oxidized Rhizospheres of Partners of Partn						
Drift Deposits (B3) Presence of Reduced Iro						
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) Other (Explain in Remark						
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):	8 Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Remarks:						
Remarks.						

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer rubrum	15	Yes	FAC			
Populus deltoides	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)		
3. Acer saccharinum	5	No	FACW			
4. Acer negundo	5	No	FAC	Total Number of Dominant Species Across All Strata: 9 (B)		
5. Ulmus americana	5	No	FACW	`` ,		
6.			17.011	Percent of Dominant Species That Are OBL, FACW, or FAC: 77.8% (A/B)		
7.				Prevalence Index worksheet:		
	40	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species x 1 =		
1. Rhus typhina	10	Yes	UPL	FACW species x 2 =		
2. Salix nigra	5	Yes	OBL	FAC species x 3 =		
3. Rhamnus cathartica	5	Yes	FAC	FACU species x 4 =		
4. Lonicera tatarica	5	Yes	FACU	UPL species x 5 =		
5. Staphylea trifolia	5	Yes	FAC	Column Totals: (A) (B)		
6.				Prevalence Index = B/A =		
7.				Hydrophytic Vegetation Indicators:		
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )		· · · · · · · · · · · · · · · · · · ·		X 2 - Dominance Test is >50%		
Lythrum salicaria	15	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Phalaris arundinacea	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
Scirpus atrovirens	5	No	OBL	data in Remarks or on a separate sheet)		
4. Symphyotrichum novae-angliae	5	No No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
<ul><li>5. <u>Lysimachia nummularia</u></li><li>6.</li></ul>	5	No	FACW	<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.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless		
	45	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in		
1				height.		
2.						
3				Hydrophytic Vegetation		
4.				Present? Yes X No		
		=Total Cover				
Remarks: (Include photo numbers here or on a separ	ate sheet.)	-				
·	,					

Sampling Point: GR-X-Wet

SOIL Sampling Point GR-X-Wet

		o the de				ator or c	onfirm the absence o	f indicators.)
Depth	Matrix	0/		x Featur		1 - 2	T	Demondes
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 4/3	100						
4-14	10YR 2/1	95	10YR 4/6	5	С	М	Mucky Loam/Clay	Prominent redox concentrations
	<del></del>							
1			A. De dece d Markets N	40. 14			21	N. Dane Lining M. Makris
Hydric Soil I	ncentration, D=Deple	etion, Riv	/I=Reduced Matrix, N	/IS=IVIAS	ked Sand	Grains.		PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfa	ce (S8) (	LRR R.		uck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		( - / (	,		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA	149B) 5 cm Mu	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	311) ( <b>LRI</b>	R K, L)	Polyvalu	ue Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky			<b>R</b> K, L)		rk Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri		.0)			nt Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1) leyed Matrix (S4)		X Redox Dark Su Depleted Dark		•			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) rent Material (F21)
	edox (S5)		Redox Depres					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		<i>o</i> ,			Explain in Remarks)
Dark Sur				, ,				•
_								
		on and w	vetland hydrology mu	ust be pr	esent, ur	nless dis	turbed or problematic.	
	.ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No
Remarks:	m is revised from Nor	thoontro	l and Northaget Boa	ional Cu	nnlomon	t Varaian	2.0 to include the NP(	CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w							53 Field indicators of Frydric Solls,
			-	_			, _ ,	



Wetland G-R-X- View facing West



Wetland G-R-X- Soils

## SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/10/21				
Applicant/Owner: CHPE	State: NY Sampling Point: GR-X-Up				
Investigator(s): KW, KS	Section, Township, Range: Whitehall				
Landform (hillside, terrace, etc.): Toeslope Local	relief (concave, convex, none): Concave Slope %: 0				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,48',05.05"N	Long: 73°,42',90.84"W Datum:				
Soil Map Unit Name: Kingsbury Silty Clay/Vergennnes Silty Clay Loam	NWI classification: None				
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					
Are Vegetation, Soil, or Hydrology significantly distint					
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.)					
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 (E	B9) Drainage Patterns (B10)				
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)  Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (					
Sediment Deposits (B2)  Oxidized Rhizospheres of					
Drift Deposits (B3)  Presence of Reduced Iro					
Algal Mat or Crust (B4)  Recent Iron Reduction in	<u> </u>				
Iron Deposits (B5)  Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No Depth (inches):					
Water Table Present? Yes No Depth (inches):					
Saturation Present? Yes No Depth (inches):					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

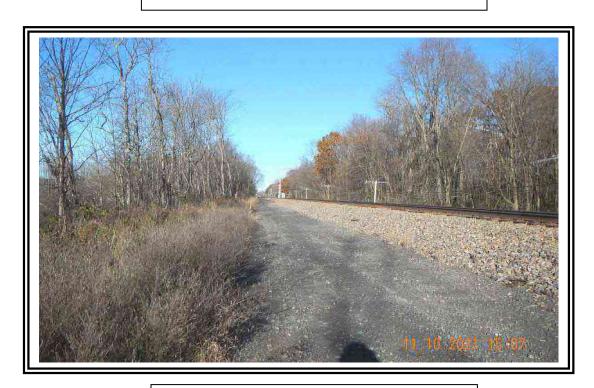
Free Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Populus deltoides	10	Yes	FAC	Newshare of Description (Consider			
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)			
3.							
				Total Number of Dominant Species Across All Strata: 5 (B)			
5.	•						
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)			
,				Prevalence Index worksheet:			
	10	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15'	· <del></del>			OBL species x 1 =			
. Rhus typhina	15	Yes	UPL	FACW species x 2 =			
L. Lonicera tatarica	20	Yes	FACU	FAC species x 3 =			
S. Edword tatariou			17.00	FACU species x 4 =			
				UPL species x 5 =			
				(1)			
				Prevalence Index = B/A =			
				Hydrophytic Vegetation Indicators:			
· -	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		- Total Cover		2 - Dominance Test is >50%			
. Centaurea stoebe	35	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Phalaris arundinacea	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportir			
	10	No	FACU	data in Remarks or on a separate sheet)			
	10			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	10	No No	FACU FACW	Problematic Hydrophytic Vegetation (Explain)			
5. Phragmites australis 6.	10	NO	FACV	<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.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless			
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Noody Vine Stratum (Plot size: 15'	)			Woody vines – All woody vines greater than 3.28 ft in			
i				height.			
2.							
				Hydrophytic Vegetation			
3.				Present? Yes No X			
1							
3. 4.		=Total Cover					

SOIL Sampling Point GR-X-Up

(inches)	Matrix		Redo	x Featur	es			
(	Color (moist)	%	Color (moist)	%	Type <sup>1</sup> L	.oc²	Texture	Remarks
0-12	7.5YR 5/3							
		— –						
				·				
		— –						
		— –						
	oncentration, D=Depletion	on, RM=F	Reduced Matrix, M	/IS=Masl	ked Sand G	rains.	<sup>2</sup> Location: PL=Pore	
Hydric Soil I			5 5.		(00) (1.5			lematic Hydric Soils <sup>3</sup> :
Histosol (	` '	_	Polyvalue Belo		ce (S8) ( <b>LR</b>	RR,		() (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B	•	/I DD D M	I DA 140D		edox (A16) (LRR K, L, R)
Black His	n Sulfide (A4)		Thin Dark Surfa High Chroma S		-			at or Peat (S3) ( <b>LRR K, L, R</b> )
	I Layers (A5)		Loamy Mucky I					ce (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface (A	.11)	Loamy Gleyed			<b>(, L</b> )		Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Depleted Matrix		2)			plain Soils (F19) ( <b>MLRA 149E</b>
	lucky Mineral (S1)		Redox Dark Su		6)			A6) (MLRA 144A, 145, 149B)
	Sleyed Matrix (S4)		Depleted Dark		-		Red Parent Mate	
	ledox (S5)		Redox Depress					ark Surface (F22)
	Matrix (S6)		 Marl (F10) ( <b>LR</b>		,		Other (Explain in	` ,
Dark Sur	rface (S7)		_					
		and wetl	and hydrology mι	ust be pr	esent, unles	ss disturbe	d or problematic.	
Indicators of	f hydrophytic vegetation							
	hydrophytic vegetation  Layer (if observed):							
	, , , ,							
Restrictive L	Layer (if observed):					н	ydric Soil Present?	Yes No_X_
Restrictive L Type: Depth (in	Layer (if observed):					н	ydric Soil Present?	Yes No_X
Restrictive L Type: Depth (in	Layer (if observed):	entral an	d Northeast Regi	ional Su	oplement Ve			Yes No X  Indicators of Hydric Soils,
Type: _ Depth (in Remarks: This data forr	Layer (if observed):					ersion 2.0 t	o include the NRCS Field	
Type: _ Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Restrictive L Type: Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Restrictive L Type: Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Restrictive L Type: Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Type: _ Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Type: _ Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Type: _ Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Type: _ Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Type: _ Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Restrictive L Type: Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	
Type: _ Depth (in Remarks: This data forr	Layer (if observed):  nches):  m is revised from Northo					ersion 2.0 t	o include the NRCS Field	



**Upland G-R-X- View facing Northeast** 



Upland G-R-X- View facing North

## SITE PHOTOGRAPHS

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/09/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-U-Wei
Investigator(s): KW, KS	Section, Township, Range: Whitehall
Landform (hillside, terrace, etc.): Floodplain Local r	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,52',16.81"N	Long: 73°,41',07.89"W Datum:
Soil Map Unit Name: Limerick Silty Loam	NWI classification: PSS/PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	<del></del>
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	oling 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.)	
Tromaino: (Explain alionialito proceduros noto el in a coparate roport.)	
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) X Water-Stained Leaves (B	
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	
Sediment Deposits (B2)  Oxidized Rhizospheres of Parkurant Inc.	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present?  Yes  No X  Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	<u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator			
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:		
1. Acer rubrum	10	Yes	FAC	Number of Dominant Species		
2. Fraxinus pennsylvanica	10	Yes	FACW	That Are OBL, FACW, or FAC: 7 (A)		
3. Ulmus americana	5	No No	FACW	Total Number of Dominant		
4. Acer negundo	5	<u>No</u>	FAC	Species Across All Strata: 10 (B)		
5.				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC: 70.0% (A/B)		
7				Prevalence Index worksheet:		
	30	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =		
1. Rhus typhina	5	Yes	UPL	FACW species x 2 =		
2. Alnus incana	10	Yes	FACW	FAC species x 3 =		
3. Lonicera tatarica	5	Yes	FACU	FACU species x 4 =		
4.				UPL species x 5 =		
5				Column Totals: (A)(B)		
6.				Prevalence Index = B/A =		
7				Hydrophytic Vegetation Indicators:		
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%		
1. Lythrum salicaria	15	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptations (Provide supporting		
3. Scirpus cyperinus	10	Yes	OBL	data in Remarks or on a separate sheet)		
4. Onoclea sensibilis	10	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Solidago canadensis	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
6. Epilobium coloratum	5	No	OBL	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		
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 15' )		•		Woody vines – All woody vines greater than 3.28 ft in		
1.				height.		
2.						
3.	•			Hydrophytic		
4.				Vegetation Present? Yes X No		
		=Total Cover				
Remarks: (Include photo numbers here or on a separ	rate sheet \			1		
. temano. Imorado prioto numbors nere or on a separ	ato siloct.)					

Sampling Point: GR-U-Wet

SOIL Sampling Point GR-U-Wet

Depth	Matrix	J lile de		x Featur		ator or c	onfirm the absence o	i muicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	2.5YR 5/1	100						
8-14	10YR 5/2	97	10YR 5/6	3	С	M	Mucky Loam/Clay	Prominent redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, Ν	/IS=Mas	ked San	d Grains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil								or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Polyvalue Belo		ce (S8) (	LRR R,		uck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B	•	\ /I DD D	MIDA		rairie Redox (A16) (LRR K, L, R)
Black His	en Sulfide (A4)		Thin Dark Surf					ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) ue Below Surface (S8) ( <b>LRR K, L</b> )
	d Layers (A5)		Loamy Mucky					rk Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed			, ,		nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		X Depleted Matri	x (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su		-			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark					rent Material (F21)
	Redox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6) rface (S7)		Marl (F10) ( <b>LR</b>	K K, L)			Other (E	Explain in Remarks)
Bank Gan	nace (Gr)							
<sup>3</sup> Indicators of	f hydrophytic vegetation	on and w	vetland hydrology mu	ust be pr	esent, u	nless dis	turbed or problematic.	
Restrictive I	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:							•	
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://wv	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	12p2_051293.docx)	



Wetland G-R-U- View facing East



Wetland G-R-U- Soils

## SITE PHOTOGRAPHS

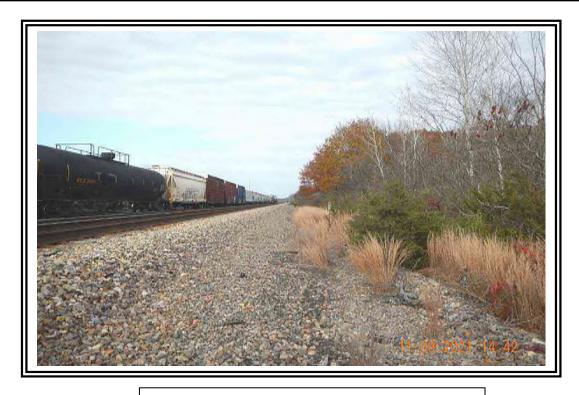
Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/09/21				
Applicant/Owner: CHPE	State: NY Sampling Point: GR-U-Up				
Investigator(s): KW, KS	Section, Township, Range: Whitehall				
Landform (hillside, terrace, etc.): Floodplain Local i	relief (concave, convex, none): Concave Slope %: 10				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,52',16.18"N	Long: 73°,41',07.89"W Datum:				
Soil Map Unit Name: Limerick Silt Loam	NWI classification: None				
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 samp	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.)	,				
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 (E	B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (					
Sediment Deposits (B2)  Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	ks)Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:				
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Populus deltoides	5	Yes	FAC	Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3.				Total Number of Dominant
4.				Species Across All Strata: 6 (B)
F				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)
7				Prevalence Index worksheet:
1.				
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1. Rhus typhina	15	Yes	UPL	FACW species x 2 =
2. Juniperus virginiana	15	Yes	FACU	FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6				Prevalence Index = B/A =
7.		<u> </u>		Hydrophytic Vegetation Indicators:
1.		-Tatal Cavan		
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Centaurea stoebe	35	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Schizachyrium scoparium	30	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Cirsium arvense	15	No	FACU	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				1. discharge flooride and southern discharge monoch
6.				<sup>1</sup> 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
9.		<del></del>		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
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1. Rubus allegheniensis	5	Yes	FACU	height.
2.				
2				Hydrophytic
				Vegetation Present? Yes No X
4.				Present?
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: GR-U-Up

SOIL Sampling Point GR-U-Up

Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
	_				· <u></u>				
	_				·				
	_								
	_				· <u></u>				
Type: C=Cor	ncentration, D=Deple	etion. RM	=Reduced Matrix. I	MS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Ma	trix.
Hydric Soil In		,	, , , , , , , , , , , , , , , , , , , ,				Indicators for Pro		
Histosol (			Polyvalue Belo	ow Surfa	ce (S8) (I	LRR R.		10) ( <b>LRR K, L, I</b>	
	pedon (A2)		MLRA 149E		00 (00) (.	,		Redox (A16) ( <b>LF</b>	
Black Hist			Thin Dark Sur	•	(LRR R	. MLRA 1		eat or Peat (S3)	
	Sulfide (A4)		High Chroma		-			ow Surface (S8)	
	_ayers (A5)		Loamy Mucky					ace (S9) ( <b>LRR</b> l	
	Below Dark Surface	(A11)	Loamy Gleyed			· · · · · · · · · · · · · · · · · · ·		se Masses (F12	•
	k Surface (A12)	(//(1)	Depleted Matr		1 2)			dplain Soils (F1	
	cky Mineral (S1)		Redox Dark S		:6)			(TA6) ( <b>MLRA 1</b> 4	
	eyed Matrix (S4)		Depleted Dark	-	-		Red Parent Ma		14A, 143, 143D)
Sandy Ole			Redox Depres					Dark Surface (F	221
					5)			•	22)
	Matrix (S6)		Marl (F10) ( <b>LF</b>	KK K, L)			Other (Explain	in Remarks)	
Dark Surf	ace (57)								
3Indicators of I	ovedranhvija vagatatis		atland budralagu m	uat ha ne	ocent ur	alaaa diate	urbad ar problematic		
		on and w	etiand nydrology m	ust be pr	esent, ur	iless dist	urbed or problematic.		
	ayer (if observed):	allaat							
Type:	cobble/ba								
Depth (inc	ches):	0					Hydric Soil Present?	Yes	No X
Remarks:									
No soil hole d	ug due to ballast side	eslope ad	djacent to wetland b	oundary					



Upland G-R-U- View facing North



Upland G-R-U- View facing North

## 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: Whitehal	l/Washington	Sampling Date: 02-15-2023					
Applicant/Owner: TDI		State: NY	Sampling Point: Wet					
Investigator(s): C. Scrivner & C. Einstein	Section, Towr	nship, Range:	<u></u>					
·	relief (concave, convex,		Slope %: 5					
Subregion (LRR or MLRA): LRR R Lat: 43.51353° N		-73.41494° W	Datum: WGS84					
Soil Map Unit Name: Lm: Limerick silt loam	<u>-</u>	NWI classification:	<del></del>					
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 Hydrologysignificantly disturb		al Circumstances" preser						
Are Vegetation, Soil, or Hydrologynaturally problems		explain any answers in I						
SUMMARY OF FINDINGS – Attach site map showing san		•	,					
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No							
Wetland Hydrology Present?  Yes X No		and Site ID: Near flag						
Remarks: (Explain alternative procedures here or in a separate report.) Shallow Emergent Marsh. Old Champlain Canal.								
HYDROLOGY								
Wetland Hydrology Indicators:	<u> </u>	Secondary Indicators (m	inimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks						
X Surface Water (A1) Water-Stained Leaves (I	B9)							
X High Water Table (A2)  Aquatic Fauna (B13)  Add Descrite (B15)	<del>-</del>	Moss Trim Lines (B1	•					
X Saturation (A3) Marl Deposits (B15)	<u> </u>	Dry-Season Water T						
Water Marks (B1)  Hydrogen Sulfide Odor (  Sodiment Deposits (B2)  Ovidized Phizospheres	· ′	Crayfish Burrows (C	·					
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)	• • • • • • • • • • • • • • • • • • • •							
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	_	<del></del>						
Sparsely Vegetated Concave Surface (B8)	,	X FAC-Neutral Test (D	` '					
Field Observations:			· · · · · · · · · · · · · · · · · · ·					
Surface Water Present? Yes X No Depth (inches):	18							
Water Table Present? Yes X No Depth (inches):								
Saturation Present? Yes X No Depth (inches):	0 Wetland	Hydrology Present?	Yes X No					
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								

ee Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	Sampling	<u>-</u>	Wet	_
<u> </u>	70 0010.	Сросіос.	Otatao	Number of Domin				
	_			That Are OBL, FA	•		2	(A)
				Total Number of Species Across A			2	_(B)
				Percent of Domir That Are OBL, FA	nant Species	_	00.0%	(A/B
				Prevalence Index worksheet:		et:		
		=Total Cover				Mu	Itiply by:	
pling/Shrub Stratum (Plot size: 15'	_)			OBL species	100	x 1 =	100	
	_			FACW species	0	x 2 =	0	
	_			FAC species	0	x 3 =	0	
				FACU species	0	x 4 =	0	
				UPL species	0	_	0	
				Column Totals:	100	(A)	100	<u>—</u> (В
				Prevalenc	e Index = B	/A =	1.00	
				Hydrophytic Veg	getation Ind	icators:		
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
rb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%				
Typha latifolia	75	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
Typha angustifolia		Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide suppo data in Remarks or on a separate sheet)			portin	
_	_			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.  Definitions of Vegetation Strata:			in)	
							nust t	
	_							
				Tree – Woody pl at breast height (				amete
				Sapling/shrub –	Woody plan	ite lace th	an 3 in D	ВH
				and greater than				ווט
				Llaub All borbo		العرابات ما الم		rallaa
		=Total Cover		Herb – All herba				raiess
oody Vine Stratum (Plot size: 30'	)					00 ft in		
	_			<b>Woody vines</b> – All woody vines greater than 3.28 height.			.0 11 111	
				Hydrophytic				
				Vegetation Present?	Yes X	No		

SOIL Sampling Point: Wet

Profile Description: (Describe to the depth needed to document the indicator or concepth Matrix Redox Features					tor or co	onfirm the absence of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 4/1	90	10YR 3/6	10	С	М	Loamy/Clayey	Prominent redox concentrations	
8-17	10YR 5/1	70	10YR 5/6	10	С	М	Loamy/Clayey	Prominent redox concentrations	
			10YR 4/6	20	С	M		Prominent redox concentrations	
	-						-		
							<del></del>		
<sup>1</sup> Type: C=Co	ncentration. D=Deple	etion. RM	l=Reduced Matrix. M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PI	L=Pore Lining, M=Matrix.	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <b>Hydric Soil Indicators:</b>						or Problematic Hydric Soils <sup>3</sup> :			
	Histosol (A1) Dark Surface (S7)						ck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
	Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R,			Coast Prairie Redox (A16) (LRR K, L, R)					
Black Histic (A3)  MLRA 149B)  5 cm Mucky Peat or Peat (S3) (LRR K, L,									
				e Below Surface (S8) (LRR K, L)					
	Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L)				k Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R)				
Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L)  Thick Dark Surface (A12) Loamy Gleyed Matrix (F2)					t Floodplain Soils (F19) (MLRA 149B)				
				ent Material (F21) (outside MLRA 145)					
	(MLRA 144A, 145, 149B) Redox Dark Surface (F6)			Very Shallow Dark Surface (F22)					
Sandy Mu	Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)		(F7)		Other (E	xplain in Remarks)			
Sandy Gleyed Matrix (S4)		X Redox Depressions (F8)							
Sandy Redox (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)			RA 145)	wetland hydrology must be present,			
Postrictivo I	ayer (if observed):						unless	disturbed or problematic.	
Type:	ayer (ii observed).								
	ches):						Hydric Soil Presen	nt? Yes X No	
Remarks:							.,		
remarks.									



Wetland P1C-A2 - View facing north/northeast



Wetland P1C-A2 - 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: V	Whitehall/Washington	Sampling Date: 02/15/2023
Applicant/Owner: TDI		State: NY	Sampling Point: Upl P1C-A2
Investigator(s): C. Scrivner & C. Einstein	Section	on, Township, Range:	_
Landform (hillside, terrace, etc.): Hillslope	•	convex, none): Convex	Slope %: 2
· · · · · · · · · · · · · · · · · · ·		·	
		Long: <u>-73.41503° W</u>	Datum: WGS84
Soil Map Unit Name: Vec: Vergennes silty clay loam, 6 to	12 percent slopes	NWI classification:	NA
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	s <u>x</u> No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrologysi	gnificantly disturbed? Are	e "Normal Circumstances" prese	ent? Yes x No
Are Vegetation, Soil, or Hydrologyna	aturally problematic? (If r	needed, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site map s	showing sampling point	t locations, transects, ir	mportant features, etc.
Hydrophytic Vegetation Present? Yes I	No X Is the Samp	alad Araa	
	No within a We		No X
l		nal Wetland Site ID:	<u> </u>
Remarks: (Explain alternative procedures here or in a sep- Successional old field & cropland/field crop community.	arate report.)		
Cussossional old note a stopianamola stop seminamy.			
HYDROLOGY	_		
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is required; check all the	nat apply)	Surface Soil Cracks	s (B6)
Surface Water (A1) Water-S	stained Leaves (B9)	Drainage Patterns	(B10)
High Water Table (A2) Aquatic	Fauna (B13)	Moss Trim Lines (B	16)
Saturation (A3)Marl De	posits (B15)	Dry-Season Water	Table (C2)
Water Marks (B1) Hydroge	en Sulfide Odor (C1)	Crayfish Burrows (0	C8)
	d Rhizospheres on Living Roots	· · —	n Aerial Imagery (C9)
	e of Reduced Iron (C4)	Stunted or Stressed	
<del></del>	Iron Reduction in Tilled Soils (C		, ,
	ck Surface (C7)	Shallow Aquitard (D	,
<del></del>	explain in Remarks)	Microtopographic R	` '
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (	D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):	Matlam d Hudualamu Buasauto	Vaa Na V
	Depth (inches):	Netland Hydrology Present?	Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, a	varial photos, provious inspectio	una) if available:	
Describe Recorded Data (Stream gauge, monitoring well, a	enai priotos, previous irispectio	ins), ii avallable.	
Remarks:			
Tromano.			

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

<u>Tree Stratum</u> (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3.       4.				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:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1				FACW species x 2 = 40
2				FAC species 0 x 3 = 0
3				FACU species 40 x 4 = 160
4				UPL species40 x 5 =200
5.				Column Totals: 100 (A) 400 (B)
6.				Prevalence Index = B/A = 4.00
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%
1. Pastinaca sativa	40	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Solidago canadensis	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Poa pratensis	15	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Ambrosia artemisiifolia	5	No	FACU	
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in 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.				
	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
1				height.
2				Hydrophytic
3				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: Upl P1C-A2

SOIL Sampling Point: Upl P1C-A2

		the de				tor or co	nfirm the absence of	indicators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/2	100					Loamy/Clayey	
10-16	10YR 4/2	90	10YR 5/6	10	С	М	Loamy/Clayey	Prominent redox concentrations
							<del></del> .	
								_
	·							
								_
1			B. L. Mark M				21	L Book Lister M. Mark
Hydric Soil Ir	ncentration, D=Deple	tion, Riv	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface (	S7)				ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pedon (A2)		Polyvalue Belo		ce (S8) ( <b>L</b>	RR R.		rairie Redox (A16) (LRR K, L, R)
Black His			MLRA 149B			,		cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1		e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		High Chroma S	Sands (S	311) (LRF	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral (	(F1) ( <b>LRF</b>	R K, L)	Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick Dai	rk Surface (A12)		Loamy Gleyed	Matrix (I	F2)		Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	odic (A17)		X Depleted Matrix					ent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su					allow Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark				Other (E	xplain in Remarks)
	eyed Matrix (S4)		Redox Depress	,	8)		<sup>3</sup> Indicate	rs of hydrophytic vegetation and
Sandy Re	Matrix (S6)		Marl (F10) ( <b>LR</b> Red Parent Ma		21) (MI 🛭	Λ 1/15\		d hydrology must be present,
Stripped i	IVIALITY (30)		Red rate it wa	iteriai (i i	21) (IVILIV	A 143)		d riydrology must be present, sidisturbed or problematic.
Restrictive L	ayer (if observed):						unics	additional of problematic.
Type:	, , , , , , , , , , , , , , , , , , , ,							
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No
Remarks:							•	
0								



**Upland P1C-A2 - View facing south** 



**Upland P1C-A2 - Soils** 

# Package 1C

# SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/10/21					
Applicant/Owner: CHPE	State: NY Sampling Point: GR-V-Wei					
Investigator(s): KW, KS	Section, Township, Range: Whitehall					
Landform (hillside, terrace, etc.): Floodplain Local r	relief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,50',75.59"N	Long: 73°,41',46.86"W Datum:					
Soil Map Unit Name: Saco Silt Loam	NWI classification: PSS/PEM					
Are climatic / hydrologic conditions on the site typical for this time of year?	<del></del>					
Are Vegetation, Soil, or Hydrology significantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing samp	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.)						
Tromaino: (Explain alionialito proceduros noto el in a coparato report.)						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) X Water-Stained Leaves (B	39) X Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (6						
Sediment Deposits (B2)  Oxidized Rhizospheres o						
Drift Deposits (B3) Presence of Reduced Iro						
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) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches):						
(includes capillary fringe)	6 Wetland Hydrology Present? Yes X No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections). if available:					
	,					
Remarks:						

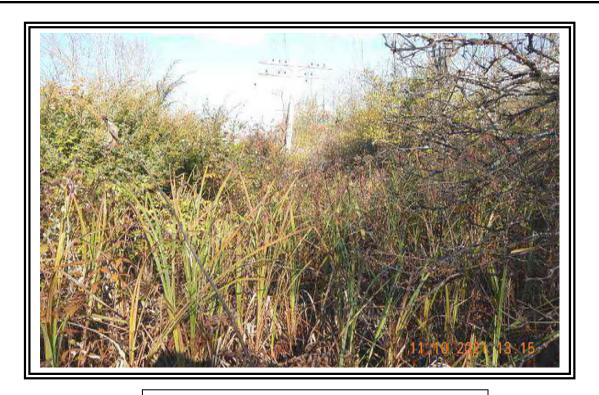
## **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	15	Yes	FAC	
Fraxinus pennsylvanica	5	No	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
Ulmus americana	10	Yes	FACW	
4. Acer negundo	5	No	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
5.		110	17.0	·, , ,
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)
7.		·		Prevalence Index worksheet:
	35	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		<del>-</del>		OBL species x 1 =
1. Cornus racemosa	15	Yes	FAC	FACW species x 2 =
2. Alnus incana	5	Yes	FACW	FAC species x 3 =
3. Lonicera tatarica	5	Yes	FACU	FACU species x 4 =
4.				UPL species x 5 =
5				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Lythrum salicaria	10	No	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phalaris arundinacea	5	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Scirpus atrovirens	25	Yes	OBL	data in Remarks or on a separate sheet)
Onoclea sensibilis	25	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Solidago canadensis	5	No	FACU	- Troblematic Hydrophytic Vegetation (Explain)
6.		110	TACO	<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.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:15')				<b>Woody vines</b> – 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 separ	ate sheet.)	-		
,	,			

Sampling Point: GR-V-Wet

SOIL Sampling Point GR-V-Wet

		o the de				ator or c	onfirm the absence o	f indicators.)
Depth	Matrix	0/		x Featur		12	Tarabana	Damandra
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/2	100						
6-14	10YR 5/1	97	10YR 5/6	3	С	M	Mucky Loam/Clay	Prominent redox concentrations
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	/=Reduced Matrix, N	 ∕/S=Mas	ked San	d Grains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil II			•					or Problematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epi	pedon (A2)		MLRA 149B	)			Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3)		Thin Dark Surf		-		<b>149B</b> )5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					ie Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky			<b>R K</b> , <b>L</b> )		rk Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		X Depleted Matri		-6)			nt Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1) eyed Matrix (S4)		Redox Dark Su Depleted Dark					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) rent Material (F21)
Sandy Re			Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>		-,			Explain in Remarks)
Dark Surf				, ,				,
		on and w	vetland hydrology mu	ust be pr	esent, ui	nless dis	turbed or problematic.	
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
	n is revised from Nor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland G-R-V- View facing North



Wetland G-R-V- Soils

# Package 1C

# SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/10/21				
Applicant/Owner: CHPE	State: NY Sampling Point: GR-V-Up				
Investigator(s): KW, KS	Section, Township, Range: Whitehall				
Landform (hillside, terrace, etc.): Floodplain Local i	relief (concave, convex, none): Concave Slope %: 10				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,50',75.59"N	Long: 73°,41',46.86"W Datum:				
Soil Map Unit Name: Saco Silt Loam	NWI classification: None				
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					
<del></del>					
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.)					
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 (E	B9) Drainage Patterns (B10)				
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)  Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (					
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)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark					
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):					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:				
g, p, p, p, p					
Remarks:					

 VEGETATION – Use scientific names of plants.
 Sampling Point:
 GR-V-Up

Troo Stratum (Diet size: 20' )	Absolute	Dominant Species?	Indicator	Dominance Test worksheet
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:1 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 7 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 14.3% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1. Rhus typhina	15	Yes	UPL	FACW species x 2 =
2. Juniperus virginiana	10	Yes	FACU	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Centaurea stoebe	15	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	10	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Echinochloa crus-galli	10	Yes	FAC	data in Remarks or on a separate sheet)
4. Asclepias syriaca	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	40	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:15')				Woody vines – All woody vines greater than 3.28 ft in
1. Rubus allegheniensis	5	Yes	FACU	height.
2. Parthenocissus quinquefolia	5	Yes	FACU	Hydrophytic
3				Vegetation
4				Present? Yes No X
	10	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL Sampling Point GR-V-Up

Depth Matrix (inches) Color (moist) %	Color (moist)	K Featur	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rei	marks	
<sup>1</sup> Type: C=Concentration, D=Depletion, RN <b>Hydric Soil Indicators</b> :	/I=Reduced Matrix, M	  S=Mas	ked Sand	Grains.		L=Pore Lining, M= or Problematic Hy		
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)	Polyvalue Below MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky M Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark S Redox Depress Marl (F10) (LRF	ands (S) ands (S) Alineral (Matrix (F3) rface (FS) Surface (FS)	(LRR R, 111) (LRF (F1) (LRF F2) (6) (F7)	MLRA 1 R K, L)	2 cm Mu Coast Pr 49B) 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmon Mesic Sp Red Pare Very Sha	cr Problematic Hyck (A10) (LRR K, rairie Redox (A16) cky Peat or Peat (end Below Surface (in Surface (S9) (Linganese Masses (Int Floodplain Soils prodic (TA6) (MLR) ent Material (F21) allow Dark Surface xplain in Remarks	L, MLRA 149 (LRR K, L, R S3) (LRR K, L S8) (LRR K, L RR K, L) =12) (LRR K, (F19) (MLRA A 144A, 145,	R) L, R) L) L, R) A 149B)
<sup>3</sup> Indicators of hydrophytic vegetation and verification	vetland hydrology mu	st be pr	esent, un	iless dist	urbed or problematic.			
Depth (inches): 0					Hydric Soil Preser	nt? Yes_	No	<u>X</u>
No soil hole dug due to ballast sideslope a	djacent to wetland bo	oundary						



**Upland G-R-V- View facing North** 



**Upland G-R-V- View facing South** 

Package 1C

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 - Package 1C	City/County: Whitehall / Washington County Sampling Date: 8-10-2022
Applicant/Owner: TDI	State: NY Sampling Point: Wet_1C-A-:
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear Depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43.507503	Long: -73.419000 Datum: NAD 83
Soil Map Unit Name: Vergennes silty clay loam, 3 to 8 percent slopes (Ve	PB) 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 distur	
Are Vegetation, Soil, or Hydrology naturally problem	
<del></del>	npling point locations, transects, important features, etc.
Hudranhutia Vanatatian Propost	In the Complet Area
Hydrophytic Vegetation Present?  Yes X No Yes X No No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present? Yes X No  Wetland Hydrology Present? Yes X No	within a Wetland? Yes X No  If yes, optional Wetland Site ID: Near flag 1C-A-2
	11 yes, optional violand ellers. Iteal hag to 7/2
Remarks: (Explain alternative procedures here or in a separate report.) Shallow emergent marsh. Linear ditch. Droughty conditions during data co	ollection.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)Water-Stained Leaves (	(B9) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres	<u> </u>
Drift Deposits (B3) Presence of Reduced Ir	
Algal Mat or Crust (B4)Recent Iron Reduction i	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	
Water Table Present? Yes No X Depth (inches) Saturation Present? Yes No X Depth (inches)	
Saturation Present? Yes No X Depth (inches)  (includes capillary fringe)	: Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections) if available:
Bosonibe Necorded Bata (stream gauge, monitoring well, dental photos, ph	ovious inspections), il available.
Remarks:	

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

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00101	ороско:	Otatao	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
				Species Across All Strata: 2 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 98 x 1 = 98
1. Rhamnus cathartica	1	No	FAC	FACW species 3 x 2 = 6
2. Ulmus americana	1	No	FACW	FAC species 1 x 3 = 3
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 102 (A) 107 (B
6.				Prevalence Index = B/A = 1.05
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-10tal 0010l		X 2 - Dominance Test is >50%
Lythrum salicaria	60	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
			OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
2. Carex lupuliformis	25	Yes		data in Remarks or on a separate sheet)
3. Carex vulpinoidea	13	No No	OBL	
4. Fraxinus pennsylvanica	2	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diamet
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.				Harb. All borb account (non-woods) plants, regardless.
	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' )				
1				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			1

ENG FORM 6116-8, JUL 2018

Sampling Point: Wet\_1C-A-2

SOIL Sampling Point: Wet\_1C-A-2

Depth (inches)  0-7  7-16	Matrix Color (moist)  10YR 3/1  2.5Y 5/1	% 95	Color (moist)	x Featur <u>%</u>	es Type <sup>1</sup>	Loc <sup>2</sup>	Tardina	Remarks
0-7	10YR 3/1					LOC	Texture	Remarks
			2.5Y 5/2	5	D	M	Sandy	
7-16	2.5 ¥ 5/1	00						Danasia and an demonstrations
		80	10YR 5/6	10	<u> </u>	M	Loamy/Clayey	Prominent redox concentrations
			10YR 5/4	5	С	M		Prominent redox concentrations
			10YR 2/1	5	<u>C</u>	<u>M</u>		Prominent redox concentrations
<sup>1</sup> Type: C=Con	centration D=Denle	tion RM	=Reduced Matrix, M	S-Mask	ed Sand	Grains	<sup>2</sup> l ocation: F	
Hydric Soil Inc		tion, raivi	-reduced Matrix, W	O-Masi	ca cana	Oranio.		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A			Dark Surface (	S7)				uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epip	edon (A2)		Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R,	Coast P	rairie Redox (A16) (LRR K, L, R)
Black Histi	ic (A3)		MLRA 149B	)			5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> ) Polyvalu	ue Below Surface (S8) (LRR K, L)
Stratified L	_ayers (A5)		High Chroma S	Sands (S	11) (LRF	R K, L)	Thin Da	rk Surface (S9) (LRR K, L)
Depleted F	Below Dark Surface	(A11)	Loamy Mucky	Mineral (	(F1) ( <b>LRF</b>	R K, L)	Iron-Mai	nganese Masses (F12) (LRR K, L, R)
Thick Dark	Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmoi	nt Floodplain Soils (F19) (MLRA 149B)
Mesic Spo	dic (A17)		X Depleted Matri	x (F3)			Red Par	rent Material (F21) (outside MLRA 145)
	144A, 145, 149B)		Redox Dark Su		6)			allow Dark Surface (F22)
Sandy Mu	cky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	Explain in Remarks)
Sandy Gle	yed Matrix (S4)		Redox Depress	sions (F8	3)		<del>_</del>	
Sandy Red			Marl (F10) (LR				<sup>3</sup> Indicato	ors of hydrophytic vegetation and
Stripped M	latrix (S6)		Red Parent Ma	terial (F	21) <b>(MLR</b>	A 145)	wetlar	nd hydrology must be present,
					, ,	•	unless	s disturbed or problematic.
Restrictive La	yer (if observed):							·
Type:								
Depth (inc	hes):						Hydric Soil Prese	nt? Yes X No No
Remarks:	<u> </u>						<u>I</u>	



Wetland 1C-A - View facing north



Wetland 1C-A - Soils

# Segment 3 – Package 1C

# **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 - Package 1C	City/County: Whitehall / Washington County Sampling Date: 8-10-2022
Applicant/Owner: TDI	State: NY Sampling Point: Upl_1C-A-2
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, convex, none): Convex Slope %: 10
Subregion (LRR or MLRA): LRR R Lat: 43.507	
Soil Map Unit Name: Vergennes silty clay loam, 3 to 8 percent	
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrologysignific	
Are Vegetation, Soil, or Hydrologynatural	lly problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
	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	e report )
Mowed roadside. Droughty conditions during data collection.	report.)
3 ,	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	pply) Surface Soil Cracks (B6)
Surface Water (A1) Water-Staine	ed Leaves (B9) Drainage Patterns (B10)
High Water Table (A2)Aquatic Faur	ma (B13) Moss Trim Lines (B16)
Saturation (A3)Marl Deposit	s (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Su	lfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhi	zospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4)Stunted or Stressed Plants (D1)
<del></del>	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck St	
<del></del>	in in Remarks)Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
	th (inches):
	th (inches):
	th (inches): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial	pnotos, previous inspections), ir available:
Remarks:	
Remarks.	

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

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
2.				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: 66.7% (A/B)				
7				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0				
1				FACW species 0 x 2 = 0				
2				FAC species 75 x 3 = 225				
3				FACU species 22 x 4 = 88				
4				UPL species 3 x 5 = 15				
5				Column Totals: 100 (A) 328 (B)				
6.				Prevalence Index = B/A = 3.28				
7.				Hydrophytic Vegetation Indicators:				
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%				
1. Setaria pumila	50	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
2. Lotus corniculatus	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
3. Prunella vulgaris	20	Yes	FAC	data in Remarks or on a separate sheet)				
4. Galium boreale	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5. Daucus carota	3	No	UPL	-   <del>-</del>				
6. Plantago lanceolata	2	No	FACU	<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.				Hart All had a constant of the state of the				
	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:)				Woody vines – All woody vines greater than 3.28 ft in				
1				height.				
2								
3.				Hydrophytic				
4.				Vegetation           Present?         Yes _ X _         No				
		=Total Cover						
Remarks: (Include photo numbers here or on a separ								
Remarks. (include prioto numbers here of on a separ	ate sneet.)							

Sampling Point: Upl\_1C-A-2

SOIL Sampling Point: Upl\_1C-A-2

		the dep				or or co	nfirm the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	emarks
0-6	10YR 3/2	100					Sandy		
			_						
			_						
							·		
							<u> </u>		_
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM=	Reduced Matrix, M	S=Mask	ed Sand (	Grains.	<sup>2</sup> Location: Pl	L=Pore Lining, M:	=Matrix.
Hydric Soil I								or Problematic H	
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	ck (A10) ( <b>LRR K</b> ,	, L, MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	RR R,	Coast Pr	airie Redox (A16)	) (LRR K, L, R)
Black His	stic (A3)		MLRA 149B)	)			5 cm Mu	cky Peat or Peat	(S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)	,	Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> ) Polyvalu	e Below Surface	(S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)	,	High Chroma S	ands (S	11) (LRR	K, L)	Thin Dar	k Surface (S9) (L	RR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky N	Mineral (	F1) (LRR	<b>K</b> , <b>L</b> )	Iron-Man	iganese Masses (	(F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Loamy Gleyed		<del>-</del> 2)				s (F19) ( <b>MLRA 149B</b> )
	odic (A17)		Depleted Matrix						(outside MLRA 145)
	A 144A, 145, 149B)	•	Redox Dark Su				<del></del>	allow Dark Surfac	
	ucky Mineral (S1)	,	Depleted Dark		` '		Other (E	xplain in Remarks	\$)
	leyed Matrix (S4)		Redox Depress	•	3)		3		
	edox (S5)	•	Marl (F10) (LRI		04) <b>(MI D</b>	A 445\		rs of hydrophytic	
Stripped	Matrix (S6)	•	Red Parent Ma	teriai (F2	21) <b>(MLR</b>	A 145)	wetland hydrology must be present, unless disturbed or problematic.		
Destrictive I	.ayer (if observed):						unless	disturbed or prob	plematic.
Type:	ayer (ii observed). Rock								
							Ukudaia Cail Bassasa	V	No. V
Depth (in		6					Hydric Soil Presen	it? Yes_	No <u>X</u>
Remarks:									



**Upland 1C-A - View facing southwest** 



**Upland 1C-A - Soils** 

# Segment 3 – Package 1C

# **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 - Package 1C		City/County: Whiteh	all / Washington County	Sampling Date: 8-10-2022			
Applicant/Owner: TDI			State: NY	Sampling Point: Wet_1C-B-5			
Investigator(s): C. Scrivner & J. Greaves		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): Linear De	pression Local re	elief (concave, conve	x, none): Concave	Slope %: 2			
Subregion (LRR or MLRA): LRR R	Lat: 43.506433	Long:	-73.418769	Datum: NAD 83			
Soil Map Unit Name: Vergennes silty clay loa			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 Hydro	logysignificantly disturbe	ed? Are "Norn	nal Circumstances" prese	ent? Yes x No			
Are Vegetation, Soil, or Hydro	<u> </u>		d, explain any answers in	Remarks.)			
SUMMARY OF FINDINGS – Attach			itions, transects, in	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Ar					
Hydric Soil Present?	Yes X No	within a Wetland?		No			
Wetland Hydrology Present?	Yes X No		tland Site ID: Near flag				
Remarks: (Explain alternative procedures he Red maple-hardwood swamp. Droughty cond							
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)	Water-Stained Leaves (B	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 Table (C2)					
Water Marks (B1)	X Hydrogen Sulfide Odor (C	(C1) Crayfish Burrows (C8)					
Sediment Deposits (B2)	X Oxidized Rhizospheres or	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced Iron	ron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in	in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks						
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (	)5)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches): _						
Saturation Present? Yes X	No Depth (inches): _	0 Wetlan	d Hydrology Present?	Yes <u>X</u> No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	/lous inspections), if	avaliable:				
Remarks:							

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

- O: (D) ( )	Absolute	Dominant	Indicator			
Free Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:		
. Ulmus americana	60	Yes	FACW	Number of Dominant Species		
2				That Are OBL, FACW, or FAC:5 (A)		
3				Total Number of Dominant		
l				Species Across All Strata: 5 (B)		
5				Percent of Dominant Species		
S				That Are OBL, FACW, or FAC: 100.0% (A/B)		
·				Prevalence Index worksheet:		
	60	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0		
Ulmus americana	15	Yes	FACW	FACW species 145 x 2 = 290		
2. Fraxinus pennsylvanica	5	Yes	FACW	FAC species 12 x 3 = 36		
3. Rhamnus cathartica	1	No	FAC	FACU species15 x 4 =60		
1. Acer rubrum	1	No	FAC	UPL species0 x 5 =0		
5				Column Totals: 172 (A) 386 (B)		
S				Prevalence Index = B/A = 2.24		
,	-			Hydrophytic Vegetation Indicators:		
	22	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%		
. Impatiens capensis	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Solidago gigantea	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin		
3. Alliaria petiolata	15	No	FACU	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must l		
Fraxinus pennsylvanica	5	No	FACW			
5. Rhamnus cathartica	5	No	FAC			
6. Geum canadense	5	No	FAC	present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
3.				Tree – Woody plants 3 in. (7.6 cm) or more in diamete		
).				at breast height (DBH), regardless of height.		
0.				Continue (about 1984)		
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
12.						
	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Noody Vine Stratum (Plot size: 30' )						
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		
2.	(					
				Hydrophytic		
i.				Vegetation Present? Yes X No		
"		=Total Cover		135 <u>X</u> NO		
		= I Olai Covei				

SOIL Sampling Point: Wet\_1C-B-5

Profile Desci	ription: (Describe t	o the de				tor or co	nfirm the absence of in	dicators.)		
Depth	Matrix			c Feature		2				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	2.5Y 3/2	95	10YR 4/6	5	<u>C</u>	PL	Loamy/Clayey			
4-18	N 4/	88	10YR 2/1	2	С	М	Mucky Loam/Clay			
			10YR 5/3	10	С	М		Prominent redox concentrations		
1 <sub>Tumar</sub> C. Ca	noontration D Donle		Doduced Metrix M			Crains	2l costion: DI	Dara Lining M. Matrix		
Hydric Soil I		etion, Riv	=Reduced Matrix, MS	S=IVIASK	ed Sand	Grains.		Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :		
Histosol (			Dark Surface (S	S7)				(A10) (LRR K, L, MLRA 149B)		
	ipedon (A2)		Polyvalue Belov	,	e (S8) ( <b>L</b>	RR R.		rie Redox (A16) ( <b>LRR K, L, R</b> )		
Black His			MLRA 149B)		( ) (	,		ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1		Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		High Chroma S	ands (S	11) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR K, L)		
Depleted	Below Dark Surface	(A11)	Loamy Mucky N	Mineral (	F1) ( <b>LRF</b>	R K, L)	Iron-Manga	anese Masses (F12) (LRR K, L, R)		
Thick Da	rk Surface (A12)		X Loamy Gleyed	Matrix (F	-2)		Piedmont I	Floodplain Soils (F19) (MLRA 149B)		
Mesic Sp	odic (A17)		Depleted Matrix	(F3)			Red Paren	t Material (F21) (outside MLRA 145)		
(MLR	A 144A, 145, 149B)		X Redox Dark Su	rface (F	6)		Very Shallo	ow Dark Surface (F22)		
	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Exp	olain in Remarks)		
	eyed Matrix (S4)		X Redox Depress		3)		3			
Sandy Re	, ,		Marl (F10) ( <b>LRI</b>				<sup>3</sup> Indicators of hydrophytic vegetation and			
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) <b>(MLR</b>	(A 145)	wetland hydrology must be present,			
Dootsietius I	(if al-a						unless d	listurbed or problematic.		
Type:	ayer (if observed):									
Depth (in	ches):						Hydric Soil Present?	? Yes X No		
Remarks:	,						1 -			



Wetland 1C-B near flag 1C-B-5 - View facing north



Wetland 1C-B near flag 1C-B-5 - Soils

Segment 3 – Package 1C

**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 - Package 1C	City/County: White	hall / Washington County	Sampling Date: 8-10-2022		
Applicant/Owner: TDI	<u> </u>	State: NY	Sampling Point: UPL		
Investigator(s): C. Scrivner & J. Greaves	Section, T	ownship, Range:			
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, conv		Slope %: 10		
Subregion (LRR or MLRA): LRR R Lat: 43.50657:		g: -73.418785			
Soil Map Unit Name: Vergennes silty clay loam, 12 to 20 percent s		NWI classification:	NA NA		
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 significant	· —	rmal Circumstances" prese			
Are Vegetation, Soil, or Hydrologynaturally p		ed, explain any answers in			
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point loc	ations, transects, ir	mportant reatures, etc.		
Hydrophytic Vegetation Present? Yes No X	Is the Sampled	Area			
Hydric Soil Present? Yes X No	within a Wetland	d? Yes	No X		
Wetland Hydrology Present? Yes No X	If yes, optional W	/etland Site ID:			
Successional Northern Hardwood Forest. Droughty conditions duri	ng data collection. Upland fo	r both 1C-B-5 & 1C-C-18.			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)		
Primary Indicators (minimum of one is required; check all that appl	y)	Surface Soil Cracks	s (B6)		
Surface Water (A1)Water-Stained L	eaves (B9)	Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (	B13)	Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (E	315)	Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen Sulfid	e Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizos	spheres on Living Roots (C3)	Roots (C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of Rec	duced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)Recent Iron Rec	fuction in Tilled Soils (C6)	ls (C6) Geomorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surfa	ace (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in	n Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (I	D5)		
Field Observations:					
	inches):				
	inches):	:::	y Na V		
	inches): Wetla	and Hydrology Present?	Yes No _X_		
(includes capillary fringe)	-t provious inspections)	:f =::ailabla:			
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections),	т ачапаріє.			
Remarks:					
Remarks.					

# **VEGETATION** – Use scientific names of plants. Sampling Point:

<u>Tree Stratum</u> (Plot size: 30' )	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. Fraxinus americana	75	Yes	FACU	N. ark and B. aring On aring				
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)				
3.								
4.				Total Number of Dominant Species Across All Strata: 5 (B)				
5.								
6.		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)				
7.				Prevalence Index worksheet:				
	75	=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15' )	-	-		OBL species 0 x 1 = 0				
Lonicera morrowii	30	Yes	FACU	FACW species 0 x 2 = 0				
2. Rhamnus cathartica	30	Yes	FAC	FAC species 45 x 3 = 135				
3.				FACU species 145 x 4 = 580				
4.				UPL species 10 x 5 = 50				
5.				Column Totals: 200 (A) 765 (B)				
6.				Prevalence Index = B/A = 3.83				
7.				Hydrophytic Vegetation Indicators:				
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )		_		2 - Dominance Test is >50%				
1. Alliaria petiolata	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
2. Rhamnus cathartica	10	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
3. Cornus racemosa	5	No	FAC	data in Remarks or on a separate sheet)				
4. Acer platanoides	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5. Lonicera morrowii	5	No	FACU	-   <del>-</del>				
6. Agrimonia eupatoria	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
7. Arctium minus	5	No	FACU	Definitions of Vegetation Strata:				
8.				Too Weeds plants 2 in (7.0 are) as areas in disperse.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
10.				Continue to have been then 2 in DDU				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
12.								
	65	=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' )		_		Was beginned Allert de la constant de Confrie				
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	ate sheet.)							
	,							

UPL

SOIL Sampling Point: UPL

	ription: (Describe to Matrix	the dep		ment the K Featur		tor or co	nfirm the absence of i	ndicators.)
Depth (inches)	Color (moist)	%	Color (moist)	% realur	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 3/2	75	5YR 4/6	25	С	M	Loamy/Clayey	Prominent redox concentrations
								_
								_
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> l ocation: Pl	.=Pore Lining, M=Matrix.
Hydric Soil I			. roudood mamy, m	- maon	<u> </u>	<u> </u>		r 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) ( <b>L</b>	RR R,		airie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		MLRA 149B	)			5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> ) Polyvalue	e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	ands (S	11) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral (	F1) (LRF	R K, L)	Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F	<del>-</del> 2)		Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matrix	(F3)			Red Pare	ent Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		X Redox Dark Su	rface (F	6)			llow Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark				Other (Ex	cplain in Remarks)
	leyed Matrix (S4)		Redox Depress		3)		3	
	edox (S5)		Marl (F10) ( <b>LR</b>					s of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) <b>(ML</b> R	(A 145)		d hydrology must be present,
Dootsietius I	(if al-a)\-						unless	disturbed or problematic.
	.ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present	t? Yes X No
Remarks:								



Upland 1C-B near 1C-B-5 - View facing northwest



Upland 1C-B near 1C-B-5 - Soils

Segment 3 – Package 1C

**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 - Package 1C	City/County: Whitehall / Washington County Sampling Date: 8-10-2022
Applicant/Owner: TDI	State: NY Sampling Point: Wet_1C-B-28
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Flat Lc	ocal relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 43.506317	Long: -73.418766 Datum: NAD 83
Soil Map Unit Name: Vergennes silty clay loam, 12 to 20 percent slope	
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly d	
Are Vegetation , Soil , or Hydrology naturally prob	
<u> </u>	sampling 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 No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near flag 1C-B-28
Remarks: (Explain alternative procedures here or in a separate report Shallow emergent marsh on old road. Droughty conditions during data	
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 Leav	<u> </u>
X High Water Table (A2) Aquatic Fauna (B13 X Saturation (A3) Marl Deposits (B15)	
Water Marks (B1)  X Hydrogen Sulfide O	
	eres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)  Presence of Reduce	
<del></del>	ion in Tilled Soils (C6)  X Geomorphic Position (D2)
Iron Deposits (B5)  Thin Muck Surface (	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Re	<u>—</u>
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	<u></u>
Surface Water Present? Yes No _X Depth (inch	nes):
Water Table Present? Yes X No Depth (inch	
Saturation Present? Yes X No Depth (inch	nes): 0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	<u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	

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

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Ulmus americana 2.	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)		
3.				Total Number of Dominant Species Across All Strata: 6 (B)		
5.				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC:(A/B)  Prevalence Index worksheet:		
··.	10	=Total Cover	-	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15' )	10	- Total Cover		OBL species 90 x 1 = 90		
1. Rhamnus cathartica	5	Yes	FAC	FACW species 35 x 2 = 70		
Ulmus americana	5	Yes	FACW	FAC species 5 x 3 = 15		
Fraxinus pennsylvanica	5	Yes	FACW	FACU species 0 x 4 = 0		
4. Cornus amomum	5	Yes	FACW	UPL species $0 \times 5 = 0$		
5.		100	171011	Column Totals: 130 (A) 175 (B)		
6.				Prevalence Index = B/A = 1.35		
7.				Hydrophytic Vegetation Indicators:		
···	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )		= Total Cover		X 2 - Dominance Test is >50%		
	70	Voo	OBL	$\begin{array}{c} X & 2 - \text{Bornmance rest is } > 30.76 \\ X & 3 - \text{Prevalence Index is } \le 3.0^{1} \end{array}$		
1. Lythrum salicaria	<u>70</u>	Yes				
2. Bidens frondosa	5	No No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
3. Carex vulpinoidea	5	No No	OBL FACW			
4. Fraxinus pennsylvanica	5	No No		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Epilobium coloratum	5	No No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be		
6. Eutrochium maculatum	5	No No	OBL	present, unless disturbed or problematic.		
7. Typha angustifolia	5	<u>No</u>	OBL	Definitions of Vegetation Strata:		
8 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
10.				Sapling/shrub – Woody plants less than 3 in. DBH		
11.				and greater than or equal to 3.28 ft (1 m) tall.		
12.				Hart All had a constant a constant		
	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' )				Was basins All and basins are startly a 0.00 ft.		
1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		
2.						
3.				Hydrophytic		
4.				Vegetation Present? Yes X No		
		=Total Cover				
Remarks: (Include photo numbers here or on a separa	ato choot )	-10101 00101				
remarks. (include prioto numbers here of on a separa	ale Sileel.)					

Sampling Point: Wet\_1C-B-28

SOIL Sampling Point: Wet\_1C-B-28

Profile Desci	ription: (Describe to	o the de				tor or co	nfirm the absence of i	ndicators.)		
Depth	Matrix			k Feature						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	2.5Y 3/2	95	10YR 4/6	5	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations		
4-18	N 4/	88	10YR 2/1	2	С	M	Mucky Loam/Clay	Distinct redox concentrations		
			10YR 5/3	10	С	М		Prominent redox concentrations		
							· -			
						<u> </u>	· -			
1Typo: C-Co	ncontration D-Donle		=Reduced Matrix, MS		nd Sand	Grains	<sup>2</sup> Location: Pl	_=Pore Lining, M=Matrix.		
Hydric Soil II		ellon, Kiv	=Neduced Matrix, Mix	3=IVIASK	eu Sanu	Grains.		pr Problematic Hydric Soils <sup>3</sup> :		
Histosol (			Dark Surface (S	S7)				ck (A10) (LRR K, L, MLRA 149B)		
	ipedon (A2)		Polyvalue Belov	•	e (S8) ( <b>L</b>	RR R,		airie Redox (A16) (LRR K, L, R)		
Black His			MLRA 149B)		( ) (	•		cky Peat or Peat (S3) (LRR K, L, R)		
X Hydroger	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue	e Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		High Chroma S	ands (S	11) (LRF	R K, L)	Thin Darl	k Surface (S9) (LRR K, L)		
Depleted	Below Dark Surface	(A11)	Loamy Mucky N	Mineral (	F1) ( <b>LRF</b>	R K, L)	Iron-Man	ganese Masses (F12) (LRR K, L, R)		
Thick Da	rk Surface (A12)		X Loamy Gleyed	Matrix (F	-2)		Piedmon	t Floodplain Soils (F19) (MLRA 149B)		
Mesic Sp	odic (A17)		Depleted Matrix	. ,				ent Material (F21) (outside MLRA 145)		
(MLR	A 144A, 145, 149B)		X Redox Dark Su	rface (F	6)			ıllow Dark Surface (F22)		
	ucky Mineral (S1)		Depleted Dark				Other (Ex	xplain in Remarks)		
	eyed Matrix (S4)		X Redox Depress		3)		3			
Sandy Re	, ,		Marl (F10) (LRI	. ,			<sup>3</sup> Indicators of hydrophytic vegetation and			
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) <b>(ML</b> R	(A 145)	wetland hydrology must be present, unless disturbed or problematic.			
Postrictivo I	ayer (if observed):						uniess	disturbed or problematic.		
Type:	ayer (ii observed).									
Depth (in	ches):						Hydric Soil Presen	t? Yes X No		
Remarks:							l.			



Wetland 1C-B near flag 1C-B-28 - View facing north



Wetland 1C-B near flag 1C-B-28 - Soils

Segment 3 – Package 1C

**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 - Package 1C	City/County: Whitehall / Washington County Sampling Date: 8-10-2022
Applicant/Owner: TDI	State: NY Sampling Point: Upl_1c-B-28
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 20
Subregion (LRR or MLRA): LRR R Lat: 43.506325	Long: -73.418830 Datum: NAD 83
Soil Map Unit Name: Vergennes silty clay loam, 12 to 20 percent slopes (V	
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 Hydrologynaturally problems	
<del></del>	
SUMMARY OF FINDINGS – Attach site map snowing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes NoX	If yes, optional Wetland Site ID:
Successional Northern Hardwood Forest. Droughty conditions during data	collection.
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	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	(C1)Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
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:	

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

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Ulmus americana	20	Yes	FACW				
Fraxinus americana	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)			
Prunus serotina	20	Yes	FACU				
4				Total Number of Dominant Species Across All Strata:  8 (B)			
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)			
7.				Prevalence Index worksheet:			
	60	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )		_		OBL species 0 x 1 = 0			
1. Lonicera morrowii	60	Yes	FACU	FACW species 25 x 2 = 50			
2. Rhamnus cathartica	10	No	FAC	FAC species 35 x 3 = 105			
3. Cornus racemosa	5	No	FAC	FACU species 165 x 4 = 660			
4.				UPL species 10 x 5 = 50			
5.				Column Totals: 235 (A) 865 (B)			
6.				Prevalence Index = B/A = 3.68			
7.				Hydrophytic Vegetation Indicators:			
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%			
1. Geranium maculatum	25	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Parthenocissus quinquefolia	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Lonicera morrowii	20	Yes	FACU	data in Remarks or on a separate sheet)			
4. Equisetum arvense	20	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Daucus carota	10	No	UPL	_			
6. Solidago gigantea	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8.				_			
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH			
11				and greater than or equal to 3.28 ft (1 m) tall.			
12				Herb – All herbaceous (non-woody) plants, regardless			
	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.				Vegetation			
4				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Sampling Point: Upl\_1C-B-28

SOIL Sampling Point: Upl\_1C-B-28

Profile Desci Depth	ription: (Describe to Matrix	o the de		ment the x Feature		tor or co	nfirm the absence of i	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 3/2	100					Loamy/Clayey		
4-12	10YR 4/2	93	10YR 3/1	2	С	M	Loamy/Clayey	Faint redox concentrations	
<u> </u>	1011( 4/2						Loamy/Olayey		
			10YR 5/4	5	С	M		Distinct redox concentrations	
				—		—			
						—			
	ncentration, D=Deple	etion, RM	l=Reduced Matrix, M	S=Mask	ed Sand	Grains.		=Pore Lining, M=Matrix.  r Problematic Hydric Soils <sup>3</sup> :	
Hydric Soil II  Histosol (			Dark Surface (	S7)				ck (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		Polyvalue Belo	•	ce (S8) ( <b>I</b>	_RR R,		airie 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	<b>49B</b> ) Polyvalue	e Below Surface (S8) (LRR K, L)	
	Layers (A5)		High Chroma S					Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Mucky I			R K, L)		ganese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)		Loamy Gleyed		<del>-</del> 2)			t Floodplain Soils (F19) (MLRA 149B)	
	odic (A17) A 144A, 145, 149B)		X Depleted Matrix		<b>C</b> )			ent Material (F21) (outside MLRA 145)	
•	ucky Mineral (S1)		Redox Dark Su Depleted Dark					llow Dark Surface (F22) plain in Remarks)	
	leyed Matrix (S4)		Redox Depress				Other (Ex	piani in Kemarks)	
	edox (S5)		Marl (F10) (LR	•	·)		<sup>3</sup> Indicator	s of hydrophytic vegetation and	
	Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 145)			RA 145)	wetland hydrology must be present,				
							unless	disturbed or problematic.	
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present	t? Yes <u>X</u> No	
Remarks:									
ı									



Upland 1C-B near 1C-B-28 - View facing east



Upland 1C-B near 1C-B-28 - Soils

Segment 3 – Package 1C

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE - Package 1C	Cit	ty/County: Whiteha	II / Washington County_	Sampling Date: 8-10-2022	
Applicant/Owner: TDI			State: NY	Sampling Point: Wet_1C-C-18	
Investigator(s): C. Scrivner & J. Greaves		Section, Tow	rnship, Range:		
Landform (hillside, terrace, etc.): Depression	Local relie	ef (concave, convex		Slope %: 2	
Subregion (LRR or MLRA): LRR R	Lat: 43.506398		-73.418552	Datum: NAD 83	
Soil Map Unit Name: Vergennes silty clay loam,	<del>-</del>		NWI classification:	PEM1	
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes x	No (If no, e	explain in Remarks.)	
Are Vegetation , Soil , or Hydrology	·	·	al Circumstances" prese		
<del></del>			·		
Are Vegetation, Soil, or Hydrology			explain any answers in		
SUMMARY OF FINDINGS – Attach si	te map showing sampl	ling point locat	tions, transects, ın	nportant features, etc.	
Hydrophytic Vegetation Present? Ye	es X No I	Is the Sampled Are	ea		
Hydric Soil Present? Ye	es X No v	within a Wetland?	Yes X	No	
Wetland Hydrology Present? Ye	es X No II	If yes, optional Wet	land Site ID: Near flag	1C-C-18	
Remarks: (Explain alternative procedures here shallow emergent marsh. Droughty conditions d	' '				
HYDROLOGY					
Wetland Hydrology Indicators:	-		Secondary Indicators (m	inimum of two required)	
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil Cracks	•	
Surface Water (A1)	Water-Stained Leaves (B9)	9)Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)	i	Moss Trim Lines (B	16)	
X Saturation (A3)	Marl Deposits (B15)	i	Dry-Season Water	Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on L	∟iving Roots (C3)	Saturation Visible or	n Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (0	(C4)	Stunted or Stressed	Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Till	lled Soils (C6)	X Geomorphic Position	n (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	,	Microtopographic Ro	elief (D4)	
Sparsely Vegetated Concave Surface (B8)			X FAC-Neutral Test (D	05)	
Field Observations:					
	lo X Depth (inches):				
<u></u>	lo X Depth (inches):				
	lo Depth (inches):	0 Wetland	Hydrology Present?	Yes <u>X</u> No	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previou	us inspections), if a	vailable:		
Remarks:					

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Ulmus americana 2.	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 8 (B)
5				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 species75 x 1 =75
1. Fraxinus pennsylvanica	5	Yes	FACW	FACW species 55 x 2 = 110
2. Cornus amomum	5	Yes	FACW	FAC species 5 x 3 = 15
3. Viburnum lentago	5	Yes	FAC	FACU species 0 x 4 = 0
4. Ulmus americana	5	Yes	FACW	UPL species0 x 5 =0
5.				Column Totals: 135 (A) 200 (B)
6.				Prevalence Index = B/A = 1.48
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Lythrum salicaria	50	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Impatiens capensis	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Scirpus cyperinus	15	Yes	OBL	data in Remarks or on a separate sheet)
4. Eutrochium maculatum	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Bidens frondosa	5	No	FACW	
6. Cornus amomum	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Persicaria arifolia	5	No	OBL	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.		· ——		
	100	=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.
1				- roight
2				Hydrophytic
4.		· ——		Vegetation Present? Yes X No
<b>4</b> .		=Total Cover		riesent: ies 🔨 No
		= rotal Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: Wet\_1C-C-18

SOIL Sampling Point: Wet\_1C-C-18

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			x Featur						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	2.5Y 3/1	85	10YR 5/6	10	С	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
			10YR 4/6	5	С	PL		Prominent redox concentrations		
4-16	2.5Y 5/1	60	10YR 5/3	10	С	M	Loamy/Clayey	Distinct redox concentrations		
			7.5YR 4/6	10	С	M		Prominent redox concentrations		
			2.5YR 3/6	20	С	M		Prominent redox concentrations		
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PI	_=Pore Lining, M=Matrix.		
Hydric Soil Ir	ndicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :		
Histosol (	A1)		Dark Surface (\$	S7)				ck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R,	Coast Pr	airie Redox (A16) (LRR K, L, R)		
Black His	tic (A3)		MLRA 149B	)			5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen	Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue	e Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		High Chroma S	Sands (S	11) (LRF	R K, L)	Thin Dar	Thin Dark Surface (S9) (LRR K, L)		
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral (	F1) (LRF	R K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Dar	k Surface (A12)		Loamy Gleyed	Matrix (F	<del>-</del> 2)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Mesic Sp	odic (A17)		X Depleted Matrix	x (F3)			Red Parent Material (F21) (outside MLRA 145)			
(MLRA	144A, 145, 149B)		X Redox Dark Su	ırface (F	6)		Very Shallow Dark Surface (F22)			
Sandy Mu	ıcky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Explain in Remarks)			
Sandy Gl	eyed Matrix (S4)		X Redox Depress					·		
Sandy Re			Marl (F10) ( <b>LR</b>	R K, L)	•		<sup>3</sup> Indicators of hydrophytic vegetation and			
	Matrix (S6)		Red Parent Ma		21) <b>(MLR</b>	(A 145)	wetland hydrology must be present,			
				`	, ,			disturbed or problematic.		
Restrictive La	ayer (if observed):									
Depth (in	ches):						Hydric Soil Presen	t? Yes X No		
Remarks:	,									



Wetland 1C-C near flag 1C-C-18 - View facing east/southeast



Wetland 1C-C near flag 1C-C-18 - Soils

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE - Package 1C	City/County: Whitehall / Washington County Sampling Date: 8-10-2022				
Applicant/Owner: TDI	State: NY Sampling Point: UPL				
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:				
	Il relief (concave, convex, none): Convex Slope %: 10				
Subregion (LRR or MLRA): LRR R Lat: 43.506573	Long: -73.418785 Datum: NAD 83				
Soil Map Unit Name: Vergennes silty clay loam, 12 to 20 percent slopes (					
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 distu					
Are Vegetation, Soil, or Hydrologynaturally problen					
	impling point locations, transects, important features, etc.				
	T				
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area				
Hydric Soil Present? Yes X No	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.) Successional Northern Hardwood Forest. Droughty conditions during data 1C-B-5.	collection. Upland 1C-C-18 same as upland for				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor	C1) Crayfish Burrows (C8)				
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced					
Algal Mat or Crust (B4)Recent Iron Reduction	n Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in 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	):   Wetland Hydrology Present? Yes No _X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:				
Remarks:					

## **VEGETATION** – Use scientific names of plants. Sampling Point:

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. Fraxinus americana	75	Yes	FACU	N. ark and B. ariza d Octavity				
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)				
3.								
4.				Total Number of Dominant Species Across All Strata: 5 (B)				
5.								
6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)				
7.				Prevalence Index worksheet:				
	75	=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 0 x 1 = 0				
1. Lonicera morrowii	30	Yes	FACU	FACW species 0 x 2 = 0				
2. Rhamnus cathartica	30	Yes	FAC	FAC species 45 x 3 = 135				
3.				FACU species 145 x 4 = 580				
4.				UPL species 10 x 5 = 50				
5.				Column Totals: 200 (A) 765 (B)				
6.				Prevalence Index = B/A = 3.83				
7.				Hydrophytic Vegetation Indicators:				
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%				
1. Alliaria petiolata	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
2. Rhamnus cathartica	10	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
3. Cornus racemosa	5	No	FAC	data in Remarks or on a separate sheet)				
4. Acer platanoides	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5. Lonicera morrowii	5	No	FACU	·   <del></del>				
6. Agrimonia eupatoria	5	No	UPL	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>				
7. Arctium minus	5	No	FACU	Definitions of Vegetation Strata:				
8.								
9.	-			<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
10.				Continue to have been then 2 in DDU				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
12.				Harb. All borboscous (non woods) plants regardless				
	65	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
Woody Vine Stratum (Plot size: 30' )		_		Woody vines – All woody vines greater than 3.28 ft in				
1.				height.				
2.								
3.				Hydrophytic Vegetation				
4.				Present? Yes No X				
		=Total Cover						
Remarks: (Include photo numbers here or on a separ	ate sheet.)	-						
	ŕ							

UPL

SOIL Sampling Point: UPL

	ription: (Describe to Matrix	the dep		ment the K Featur		tor or co	nfirm the absence of i	ndicators.)	
Depth (inches)	Color (moist)	%	Color (moist)	% realur	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	10YR 3/2	75	5YR 4/6	25	С	M	Loamy/Clayey	Prominent redox concentrations	
								_	
								_	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> l ocation: Pl	.=Pore Lining, M=Matrix.	
Hydric Soil I			. roudood mamy, m	- maon	<u> </u>	<u> </u>		r 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) ( <b>L</b>	RR R,		airie Redox (A16) (LRR K, L, R)	
Black His	stic (A3)		MLRA 149B	)			5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> ) Polyvalue	e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		High Chroma S	ands (S	11) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral (	F1) (LRF	R K, L)	Iron-Man	ganese Masses (F12) (LRR K, L, R)	
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F	<del>-</del> 2)		Piedmont	t Floodplain Soils (F19) (MLRA 149B)	
Mesic Sp	oodic (A17)		Depleted Matrix	(F3)			Red Pare	ent Material (F21) (outside MLRA 145)	
(MLR	A 144A, 145, 149B)		X Redox Dark Su	rface (F	6)			llow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dark				Other (Ex	cplain in Remarks)	
	leyed Matrix (S4)		Redox Depress		3)		3		
	edox (S5)		Marl (F10) ( <b>LR</b>				<sup>3</sup> Indicators of hydrophytic vegetation and		
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) <b>(ML</b> R	(A 145)		d hydrology must be present,	
Dootsietius I	(if al-a)).						unless	disturbed or problematic.	
	.ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Present	t? Yes X No	
Remarks:									



**Upland 1C-C near 1C-C-18 - View facing northwest** 



Upland 11C-C near 1C-C-18 - Soils

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE - Package 1C	C	City/County: Whitehall / Washington County	Sampling Date: <u>8-10-2022</u>			
Applicant/Owner: TDI		State: NY	Sampling Point: Wet_1C-C-31			
Investigator(s): C. Scrivner & J. Greaves		Section, Township, Range:	<del></del>			
Landform (hillside, terrace, etc.): Depressio	n Local rel	lief (concave, convex, none): Concave	Slope %: 2			
Subregion (LRR or MLRA): LRR R	Lat: 43.506729	Long: -73.417069	Datum: NAD 83			
Soil Map Unit Name: Limerick silt loam (Lm)		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 Hydrol	logy significantly disturbe					
Are Vegetation, Soil, or Hydrol	· · · · · · · · · · · · · · · · · · ·		n Remarks.)			
SUMMARY OF FINDINGS – Attach						
Lhydraphytic Vegetation Present?	Voc. V. No.	In the Commind Area				
Hydrophytic Vegetation Present? 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: Near fla				
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Shallow emergent marsh in hay field. Drough	ty conditions during data collect	tion.				
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 (B9	P) Drainage Patterns	(B10)			
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
—_Water Marks (B1)	Hydrogen Sulfide Odor (C					
Sediment Deposits (B2)	X Oxidized Rhizospheres on		on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron					
Algal Mat or Crust (B4)	Recent Iron Reduction in T					
Iron Deposits (B5)	Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7)						
Sparsely Vegetated Concave Surface (Bi	<del></del>	X FAC-Neutral Test	(D2)			
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes Yes	No X Depth (inches):		Vac V No			
Saturation Present? Yes (includes capillary fringe)	No A Deptil (inches).	Wettand Hydrology Fresent?	Yes <u>X</u> No			
Describe Recorded Data (stream gauge, mor	nitoring well aerial photos, previ	ious inspections) if available:				
Boombo Roodiada Bata (otrodin gaago, mor	moning won, donar priotos, provi	is de mopositorio), il divandoro.				
Remarks:						

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.		<u> </u>		Total Number of Dominant Species Across All Strata:(B)
5				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 species68 x 1 =68
1.				FACW species 20 x 2 = 40
2				FAC species 0 x 3 = 0
3.				FACU species10 x 4 =40
4				UPL species 2 x 5 = 10
5				Column Totals: 100 (A) 158 (B)
6.				Prevalence Index = B/A = 1.58
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		_		X 2 - Dominance Test is >50%
1. Carex vulpinoidea	68	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phleum pratense	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Carex tribuloides	10	No	FACW	data in Remarks or on a separate sheet)
4. Carex scoparia	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Fraxinus pennsylvanica	5	No	FACW	1. The state of th
6. Daucus carota	2	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in 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.	-			
	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:)				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 separ	ate sheet.)			

Sampling Point: Wet\_1C-C-31

SOIL Sampling Point: Wet\_1C-C-31

Profile Desc Depth	ription: (Describe t Matrix	o the dep		ment the x Feature		tor or co	nfirm the absence of inc	dicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-12	10YR 4/1	70	10YR 5/3	20	С	M	Loamy/Clayey	Distinct redox concentrations	
			7.5YR 4/6	10	С	PL			
			7.511( 4/0						
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion. RM	=Reduced Matrix. M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.	
Hydric Soil I		,	,					Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Dark Surface (	S7)			2 cm Muck	(A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		Polyvalue Belo		e (S8) ( <b>I</b>	RR R,		rie Redox (A16) (LRR K, L, R)	
Black His	` '		MLRA 149B					y Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		Thin Dark Surfa					Below Surface (S8) (LRR K, L)	
	Layers (A5)  Below Dark Surface	(A11)	High Chroma S Loamy Mucky I					Surface (S9) (LRR K, L) anese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)	(/(11)	Loamy Gleyed			( I(, L)		Floodplain Soils (F19) (MLRA 149B)	
	oodic (A17)		X Depleted Matrix	•	,			t Material (F21) (outside MLRA 145)	
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Shallo	ow Dark Surface (F22)	
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Exp	lain in Remarks)	
	leyed Matrix (S4)		Redox Depress		3)		3		
	edox (S5)		Marl (F10) (LR		24) /841 5	۱۸ ۵ ۵ ۲ ۲ ۱	<sup>3</sup> Indicators of hydrophytic vegetation and		
Stripped	Matrix (S6)		Red Parent Ma	teriai (F2	21) (IVILA	(A 145)		hydrology must be present,	
Restrictive L	.ayer (if observed):						uniess ui	isturbed or problematic.	
_	Roc	k							
Depth (ir	nches):	12					Hydric Soil Present?	Yes X No	
Remarks:							L		



Wetland 1C-C near flag 1C-C-31 - View facing south



Wetland 1C-C near flag 1C-C-31 - Soils

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE - Package 1C	City/County:	: Whitehall / Washington County	Sampling Date: 8-10-2022			
Applicant/Owner: TDI		State: NY	Sampling Point: Upl_1C-C-31			
Investigator(s): C. Scrivner & J. Greaves	Ser	ction, Township, Range:				
Landform (hillside, terrace, etc.): Hillslope	Local relief (concav	ve, convex, none): Convex	Slope %: 2			
· · · · · · · · · · · · · · · · · · ·	<u></u>	Long: -73.417147	Datum: NAD 83			
Soil Map Unit Name: Limerick silt loam (Lm)	at. 43.300713	NWI classification:	NA NA			
Are climatic / hydrologic conditions on the site typical f	or this time of year?	'es x No (If no, e	explain in Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed? F	Are "Normal Circumstances" prese	nt? Yes x No			
Are Vegetation, Soil, or Hydrology		If needed, explain any answers in				
SUMMARY OF FINDINGS – Attach site m		•	,			
Hydrophytic Vegetation Present? Yes	X No Is the Sar	mpled Area				
	No X within a V		No X			
Wetland Hydrology Present? Yes		ional Wetland Site ID:	<u> </u>			
Hay field / farmers access road to their field. Drought	y containens during data conceilen.					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)			
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface Soil Cracks	(B6)			
<u> </u>	ater-Stained Leaves (B9)	Drainage Patterns (I	·			
	uatic Fauna (B13)	Moss Trim Lines (B16)				
	arl Deposits (B15)	Dry-Season Water Table (C2)				
<u> </u>	drogen Sulfide Odor (C1)					
<del></del>	kidized Rhizospheres on Living Roc					
	esence of Reduced Iron (C4)	ron (C4) Stunted or Stressed Plants (D1)				
	ecent Iron Reduction in Tilled Soils	n Tilled Soils (C6) Geomorphic Position (D2)				
	in Muck Surface (C7)					
	her (Explain in Remarks)					
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D	)5)			
Field Observations:						
Surface Water Present? Yes No						
Water Table Present? Yes No						
Saturation Present? Yes No	X Depth (inches):	Wetland Hydrology Present?	Yes No _X			
(includes capillary fringe)	<u> </u>					
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspec	tions), if available:				
Remarks:						

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.		- <u> </u>		Total Number of Dominant Species Across All Strata: 2 (B)
5				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 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species75 x 3 =225
3.				FACU species 20 x 4 = 80
4				UPL species 5 x 5 = 25
5.				Column Totals: 100 (A) 330 (B)
6.				Prevalence Index = B/A = 3.30
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Setaria pumila	50	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Toxicodendron radicans	15	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Galium boreale	10	No	FAC	data in Remarks or on a separate sheet)
4. Lotus corniculatus	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Daucus carota	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Plantago lanceolata	5	No	FACU	present, unless disturbed or problematic.
7. Fragaria virginiana	5	No	FACU	Definitions of Vegetation Strata:
8.				Tree Mandy plants 2 in (7.6 cm) or more in diameter
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Oction (Alanta Westerland Level Level Level Co. DDI
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' )				
1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
2				Hydrophytic
4.				Vegetation Present? Yes X No
··		=Total Cover		135 <u>X</u> 116
Domorko: (Inglisdo photo pumboro la como como	oto cho =+ \	10(a) 0000		
Remarks: (Include photo numbers here or on a separate	ate sneet.)			

Sampling Point: Upl\_1C-C-31

SOIL Sampling Point: Upl\_1C-C-31

		the de				tor or co	nfirm the absence of in	ndicators.)	
Depth	Matrix			x Featur		. 2	_	_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-3	10YR 3/2	100					Loamy/Clayey		
3-16	10YR 5/3	98	10YR 4/6	2	С	М	Loamy/Clayey	Distinct redox co	ncentrations
									-
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion. RM	=Reduced Matrix. M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL:	=Pore Lining, M=Mat	rix.
Hydric Soil II		,	, , , , , , , , , , , , , , , , , , , ,					Problematic Hydri	
Histosol (			Dark Surface (	S7)				k (A10) ( <b>LRR K, L, N</b>	
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) ( <b>L</b>	RR R,		irie Redox (A16) ( <b>LR</b>	
Black His	tic (A3)		MLRA 149B	)			5 cm Muc	ky Peat or Peat (S3)	(LRR K, L, R)
Hydroger	Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	<b>49B</b> ) Polyvalue	Below Surface (S8)	(LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	S11) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR I	K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Vlineral (	(F1) ( <b>LRF</b>	R K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F	F2)		Piedmont	Floodplain Soils (F1	9) ( <b>MLRA 149B</b> )
	odic (A17)		Depleted Matrix					nt Material (F21) <b>(ou</b>	-
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)			low Dark Surface (F2	22)
	ucky Mineral (S1)		Depleted Dark				Other (Ex	plain in Remarks)	
	eyed Matrix (S4)		Redox Depress		8)		3		
Sandy Re			Marl (F10) ( <b>LR</b>		04) (84) 5			s of hydrophytic vege	
Stripped	Matrix (S6)		Red Parent Ma	teriai (F.	21) (WLR	(A 145)		l hydrology must be p	
Postrictivo I	ayer (if observed):						uniess	disturbed or problem	atic.
Type:	ayer (ii observeu).								
	-l\·						Ibuduia Cail Duanant	0 V	Na V
Depth (in	cnes):						Hydric Soil Present	? Yes	NoX
Remarks:									



Upland 1C-C near 1C-C-31- View facing east/southeast



Upland 1C-C near 1C-C-31 - Soils

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE - Package 1C	City	//County: Whitehal	/ Washington County_	Sampling Date: <u>8-10-2022</u>
Applicant/Owner: TDI	<del></del>		State: NY	Sampling Point: Wet_1C-C-35
Investigator(s): C. Scrivner & J. Greaves		Section, Tow	nship, Range:	<u> </u>
Landform (hillside, terrace, etc.): Depression	L ocal relief	(concave, convex		Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: 43.504291		73.417249	Datum: NAD 83
Soil Map Unit Name: Orthents and Psamments (0	-	Eong.	NWI classification:	PSS1
<u> </u>	•	Voc. v	<del>_</del>	
Are climatic / hydrologic conditions on the site typic	•	Yes x	<u></u>	explain in Remarks.)
Are Vegetation, Soil, or Hydrology			al Circumstances" prese	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed,	explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling	ng point locat	ions, transects, in	portant features, etc.
Hydrophytic Vegetation Present? Yes	X No Is	the Sampled Are	а	
		vithin a Wetland?	Yes X	No
Wetland Hydrology Present? Yes			and Site ID: Near flag	
Remarks: (Explain alternative procedures here or	r in a separate report )			
Buttonbush Swamp. Droughty conditions during d	,			
3.				
LIVEROLOGY				
HYDROLOGY				
Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators (m	inimum of two required)
Primary Indicators (minimum of one is required; cl	heck all that apply)		Surface Soil Cracks	(B6)
Surface Water (A1) X	Water-Stained Leaves (B9)	_	Drainage Patterns (I	310)
X High Water Table (A2)	Aquatic Fauna (B13)	_	X Moss Trim Lines (B1	16)
X Saturation (A3)	Marl Deposits (B15)	_	X Dry-Season Water 1	able (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	_	Crayfish Burrows (C	8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Liv	ving Roots (C3)	X Saturation Visible or	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C	C4) _	Stunted or Stressed	Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille	ed Soils (C6)	X Geomorphic Position	n (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	=	Shallow Aquitard (D	3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	=	Microtopographic Re	, ,
X Sparsely Vegetated Concave Surface (B8)		=	X FAC-Neutral Test (D	95)
Field Observations:				
Surface Water Present? Yes No	X Depth (inches):			
Water Table Present? Yes X No		10		
Saturation Present? Yes X No	Depth (inches): 5	5 Wetland	Hydrology Present?	Yes X No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitorio	ng well, aerial photos, previous	s inspections), if a	vailable:	
Remarks:				

% Cover	Species?	Indicator Status	Dominance Test worksheet:			
10	Yes	FACW	Northwest Bassians Country			
10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)			
			Total Number of Dominant Species Across All Strata: 7 (B)			
			Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)			
			Prevalence Index worksheet:			
20	=Total Cover		Total % Cover of: Multiply by:			
			OBL species110 x 1 =110			
90	Yes	OBL	FACW species 55 x 2 = 110			
5	No	FAC	FAC species 5 x 3 = 15			
5	No	FACW	FACU species 0 x 4 = 0			
			UPL species0 x 5 =0			
			Column Totals: 170 (A) 235 (B)			
			Prevalence Index = B/A = 1.38			
			Hydrophytic Vegetation Indicators:			
100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
	•		X 2 - Dominance Test is >50%			
20	Yes	FACW	X 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)			
10	Yes	OBL	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:			
			<b>Tree</b> – 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.			
50	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
			Woody vines – All woody vines greater than 3.28 ft in			
			height.			
			Hydrophytic			
			Vegetation Present? Yes X No No			
	=Total Cover					
te sheet.)						
	20 90 5 5 100 10 10 10 50	20 =Total Cover  90 Yes 5 No 5 No 100 =Total Cover  20 Yes 10 Yes 10 Yes 10 Yes 50 =Total Cover	20 =Total Cover  90 Yes OBL 5 No FAC 5 No FACW  100 =Total Cover  20 Yes FACW 10 Yes OBL 10 Yes OBL 10 Yes OBL 50 =Total Cover			

Sampling Point: Wet\_1C-C-35

SOIL Sampling Point: Wet\_1C-C-35



Wetland 1C-C near flag 1C-C-35 - View facing south



Wetland 1C-C near flag 1C-C-35 - Soils

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE - Package 1C		City/County: Whiteha	all / Washington County	Sampling Date: 8-10-2022			
Applicant/Owner: TDI			State: NY	Sampling Point: Upl_1C-C-35			
Investigator(s): C. Scrivner & J. Greaves		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	ex, none): Convex	Slope %: 5			
Subregion (LRR or MLRA): LRR R	Lat: 43.504523	•	-73.417378	Datum: NAD 83			
Soil Map Unit Name: Orthents and Psammer			NWI classification:	NA —			
Are climatic / hydrologic conditions on the site	tvoical for this time of year?	Yes x	No (If no, e	explain in Remarks.)			
Are Vegetation, Soil, or Hydro	•	1	nal Circumstances" prese				
Are Vegetation , Soil , or Hydro			d, explain any answers in				
SUMMARY OF FINDINGS – Attach							
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	rea				
Hydric Soil Present?	Yes X No	within a Wetland?		No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We					
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)	Water-Stained Leaves (B	39)	Drainage Patterns (				
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 of						
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in		Geomorphic Positio				
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Solis (So)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		(S)					
Sparsely Vegetated Concave Surface (B	· — · ·	,	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 X Depth (inches):		d Hydrology Present?	Yes NoX			
(includes capillary fringe)							
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:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: (B)
5				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:15')				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 55 x 3 = 165
3.				FACU species35 x 4 =140
4.				UPL species 10 x 5 = 50
5.				Column Totals: (A) 355 (B)
6.				Prevalence Index = B/A = 3.55
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Setaria pumila	30	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Setaria pumila	15	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Glechoma hederacea	10	Yes	FACU	data in Remarks or on a separate sheet)
4. Plantago major	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Daucus carota	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Galium boreale	5	No	FAC	present, unless disturbed or problematic.
7. Toxicodendron radicans	5	No	FAC	Definitions of Vegetation Strata:
8. Lotus corniculatus	5	No	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9. Oxalis stricta	5	No	FACU	at breast height (DBH), regardless of height.
10. Trifolium pratense	5	No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH
11. Pastinaca sativa	5	No	UPL	and greater than or equal to 3.28 ft (1 m) tall.
12.				Hart All barbara and Carlo Market and Carlo Market
	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')		-		Was devided All was devided as assets than 2 00 ft in
1.				<b>Woody vines</b> – 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 separa	ate sheet \			1
Remarks. (include photo numbers here of our a separa	ale Sileel.)			

Sampling Point: Upl\_1C-C-35

SOIL Sampling Point: Upl\_1C-C-35

Profile Desc Depth	ription: (Describe to Matrix	tne de		ment the x Feature		tor or co	nfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	2.5Y 4/1	80	10YR 4/6	10	С	M	Loamy/Clayey	Prominent redox concentrations
			10YR 3/3	10	С	М		Distinct redox concentrations
							<u> </u>	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM	l=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PI	L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (	,	(00) (			ck (A10) (LRR K, L, MLRA 149B)
Black His	ipedon (A2)		Polyvalue Belo MLRA 149B		e (S8) ( <b>I</b>	LRR R,		airie Redox (A16) ( <b>LRR K, L, R</b> ) cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Surfa	•	(LRR R.	MLRA 1		e Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky					ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	` ,	Loamy Gleyed			,		t Floodplain Soils (F19) (MLRA 149B)
Mesic Sp	oodic (A17)		X Depleted Matri	x (F3)			Red Pare	ent Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Sha	allow Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark				Other (E	xplain in Remarks)
	leyed Matrix (S4)		Redox Depress		3)		3	
	edox (S5)		Marl (F10) ( <b>LR</b>		24) /841 5			rs of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	iteriai (F2	21) <b>(MLF</b>	(A 145)		d hydrology must be present,
Restrictive L	ayer (if observed):						uness	disturbed or problematic.
Type:	,							
Depth (in	nches):						Hydric Soil Presen	t? Yes <u>X</u> No
Remarks:							L	



Upland 1C-C near 1C-C-35- View facing southwest



Upland 1C-C near 1C-C-35 - Soils

## **SITE PHOTOGRAPHS**

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	(	City/County: Whiteh	all/Washington	Sampling Date: 8/11/22		
Applicant/Owner: TDI			State: NY	Sampling Point: 1C-C-73 Wet		
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): Depressio	on Local re	elief (concave, conve	x, none): Concave	Slope %: 2		
Subregion (LRR or MLRA): LRR R	Lat: 43 30 19N	•	-73 25 04W	' Datum: WGS84		
Soil Map Unit Name: OP - Orthents and Psa		5				
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, 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	1C-C near flag 1C-C-73		
Remarks: (Explain alternative procedures he						
Shallow emergent marsh within an active hay	y field.					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks			
Surface Water (A1)	Water-Stained Leaves (BS	9)	Drainage Patterns (			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)		
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 or	• , ,		n Aerial Imagery (C9)		
— Drift Deposits (B3)	Presence of Reduced Iron	` '	<del></del>			
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)				
Iron Deposits (B5)	Thin Muck Surface (C7)	1	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B	· <del></del> · · ·	s)	Microtopographic Relief (D4)			
<del></del>	8)	<u></u>	X FAC-Neutral Test ([	J5)		
Field Observations: Surface Water Present? Yes	No x Depth (inches):					
Surface Water Present? Yes Water Table Present? Yes	No x Depth (inches): _ No x Depth (inches): _					
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes X No		
(includes capillary fringe)	No x Bopar (mones).		a myarology . 1000	700 77 110		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
`	•	• ,				
Remarks:						
Delineation performed during droughty condi	tions.					

ree Stratum (Plot size:30')	Absolute			
	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC:1 (A)
				Total Number of Dominant
				Species Across All Strata: 1 (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 species65 x 1 =65
				FACW species 5 x 2 = 10
	-			FAC species30 x 3 =90
				FACU species0 x 4 =0
. <u></u> .				UPL species0 x 5 =0
<u></u>				Column Totals: 100 (A) 165 (B
				Prevalence Index = B/A = 1.65
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Scirpus atrovirens	55	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Cornus racemosa	10	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportir
Prunella vulgaris	10	No	FAC	data in Remarks or on a separate sheet)
Scirpus cyperinus	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Fraxinus pennsylvanica	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Solidago rugosa	5	No	FAC	be present, unless disturbed or problematic.
Persicaria sagittata	5	No	OBL	Definitions of Vegetation Strata:
Geum canadense	5	No	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
D				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
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/oody 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		

SOIL Sampling Point 1C-C-73 Wet

Depth	ription: (Describe to Matrix	o ine ae		ı <b>ment tı</b> k Featur			onfirm the absence o	n mulcators.)
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 3/2	80	7.5YR 4/6	_20_	c	PL	Loamy/Clayey	Prominent redox concentrations
4-17	10YR 4/1	70	10YR 3/6	30	C	m	Loamy/Clayey	Prominent redox concentrations
1		<u> </u>		<u> </u>			2	
Hydric Soil II Histosol ( Histic Ep Black His Hydroger Stratified X Depleted Thick Dan Mesic Sp (MLR/ Sandy Min Sandy Gi 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 (S Polyvalue Below MLRA 149B) Thin Dark Surface High Chroma S Loamy Mucky M Loamy Gleyed X Depleted Matrix X Redox Dark Su Depleted Dark Su Depleted Dark Su Ar Redox Depress Marl (F10) (LRI Red Parent Ma	S7) w Surfar ) ace (S9) Sands (S Mineral Matrix ( x (F3) urface (F Surface sions (F6 R K, L)	ce (S8) ( ) (LRR R S11) (LRI (F1) (LR F2) F6) e (F7) 8)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators f 2 cm Mi Coast P 5 cm Mi Polyvalu Thin Da Iron-Ma Piedmoi Red Pai Very Sh Other (E	PL=Pore Lining, M=Matrix.  For Problematic Hydric Soils <sup>3</sup> :  Fuck (A10) (LRR K, L, MLRA 149B)  Frairie Redox (A16) (LRR K, L, R)  Fucky Peat or Peat (S3) (LRR K, L, R)  Fucky Below Surface (S8) (LRR K, L)  Fuck Surface (S9) (LRR K, L)  Find Surface (S9) (LRR K, L)  Find Surface (S9) (LRR K, L)  Find Surface (F12) (LRR K, L, R)  Find Hydrodelian Soils (F19) (MLRA 149B)  Frent Material (F21) (outside MLRA 145)  Find Fucky Surface (F22)  Fix Plain in Remarks)  Find Surface (F22)  Fix Plain in Remarks)  Find Surface (F22)  Fix Plain in Remarks)
Type: _ Depth (in	ches):						Hydric Soil Prese	nt? Yes_X_ No
Remarks:								



Wetland 1C-C near flag 1C-C-73 - View facing south



Wetland 1C-C near flag 1C-C-73 - Soils

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE		City/County: Whiteh	nal <u>l/Wa</u> shington	Sampling Date: 8/11/22		
Applicant/Owner: TDI			State:	NY Sampling Point: 1C-C-73 Up		
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): Flat area	Local re	elief (concave, conv	ex, none): none	Slope %: 0		
Subregion (LRR or MLRA): LRR R	Lat: 43 30 19N		-73 25 04W	 Datum: WGS84		
Soil Map Unit Name:			NWI classifi			
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 Hydrol	logysignificantly disturb	ped? Are "Nor	mal Circumstance	s" present? Yes x No		
Are Vegetation, Soil, or Hydrol			d, explain any ans	swers in Remarks.)		
SUMMARY OF FINDINGS – Attach			itions, transec	cts, important features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	ırea			
Hydric Soil Present?	Yes No X	within a Wetland		No X		
Wetland Hydrology Present?	Yes No X	If yes, optional W	etland Site ID: ပု	pland adjacent to Wetland 1C-C near flag 1C-C-73		
Active hay field.						
HYDROLOGY						
Wetland Hydrology Indicators:				cators (minimum of two required)		
Primary Indicators (minimum of one is require				l Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (B	59)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)	<b>-</b>	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 (Co)				
Iron Deposits (B5)	Thin Muck Surface (C7)	(a)	Shallow Aquitard (D3)  Microtopographic Relief (D4)			
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	· <del></del>	.s)	FAC-Neutra			
Field Observations:	<u> </u>	<del></del>		11 Test (D0)		
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 Pre	esent? Yes No X		
(includes capillary fringe)	NO X Sopa. (		id 11341.010g, 1.1.			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), i	f available:			
		·				
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: 0 (A)
				Total Number of Dominant Species Across All Strata: 1 (B)
·				(B)
		· ——		Percent of Dominant Species
·				That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species 10 x 3 = 30
·				FACU species85 x 4 =340
				UPL species 5 x 5 = 25
				Column Totals: 100 (A) 395 (B
				Prevalence Index = B/A = 3.95
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%
Phleum pratense	70	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lotus corniculatus	5	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportir
	5	No	UPL	data in Remarks or on a separate sheet)
Daucus carota				
Trifolium pratense	5	No No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Prunella vulgaris	5	No	FAC_	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Toxicodendron radicans	5	No	FAC	be present, unless disturbed or problematic.
Fragaria virginiana	5	No	FACU	Definitions of Vegetation Strata:
				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, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size: 30')		•		Washington Allered Auditor and Auditor 2000 ft.
·				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Hydrophytic
				Vegetation Present? Yes No X
		=Total Cover		Present?

SOIL Sampling Point 1C-C-73 Upl

Profile Desc	ription: (Describe to Matrix	o the de		<b>ument tl</b> x Featur		tor or co	onfirm the absence of	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-11	10YR 3/2	100			<del></del>		Loamy/Clayey		
11-16	10YR 4/4	80	10YR 5/8	20			Loamy/Clayey	Prominent redox c	encontrations
11-10	101114/4		1011 3/6		<u> </u>	<u>m</u>	Loamy/Clayey .	Fromment redox c	oncentiations
¹Type: C=Co	oncentration, D=Deple	etion, RM	======================================	//S=Mas	ked Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Ma	trix.
Hydric Soil I								or Problematic Hydri	•
Histosol (	(A1)		Dark Surface (	S7)			2 cm Mu	ck (A10) ( <b>LRR K, L, I</b>	MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast Pr	rairie Redox (A16) ( <b>LF</b>	RR K, L, R)
Black His			MLRA 149B	5)			5 cm Mu	cky Peat or Peat (S3)	(LRR K, L, R)
— Hydroger	n Sulfide (A4)		Thin Dark Surf	ace (S9)	) (LRR R	, MLRA 1	<b>49B</b> ) Polyvalu	e Below Surface (S8)	(LRR K, L)
	Layers (A5)		High Chroma S					k Surface (S9) ( <b>LRR</b> l	
	Below Dark Surface	(A11)	Loamy Mucky					nganese Masses (F12	· ·
	rk Surface (A12)	,	Loamy Gleyed			, ,		nt Floodplain Soils (F1	
	oodic (A17)		Depleted Matri		,			ent Material (F21) <b>(ou</b>	
	A 144A, 145, 149B)		Redox Dark Su		<del>-</del> 6)			allow Dark Surface (F2	
	ucky Mineral (S1)		— Depleted Dark		-			xplain in Remarks)	,
	leyed Matrix (S4)		Redox Depres					,	
	edox (S5)		Marl (F10) ( <b>LR</b>		-,		<sup>3</sup> Indicato	rs of hydrophytic vege	etation and
	Matrix (S6)		Red Parent Ma		21) <b>(MLF</b>	RA 145)	wetlan	d hydrology must be positive disturbed or problem	oresent,
	ayer (if observed):							•	
Type: _									
Depth (in	ches):						Hydric Soil Preser	nt? Yes	
Remarks:									



Upland 1C-C near 1C-C-73 - View facing north



Upland 1C-C near 1C-C-73 - Soils

**SITE PHOTOGRAPHS** 

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

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: CHPE	C	City/County: Whiteha	all/Washington	Sampling Date: 8/11/22		
Applicant/Owner: TDI			State: NY	Sampling Point: 1C-D Wet		
Investigator(s): N. Frazer & J. Greaves		Section, Tov	wnship, Range:			
Landform (hillside, terrace, etc.): Depression	n Local rel	lief (concave, conve	x, none): Concave	Slope %: 10		
Subregion (LRR or MLRA): LRR R	Lat: 43 30 24N	•	-73 25 09W	Datum: WGS84		
Soil Map Unit Name: VeD - Vergennes silty of	<del></del>		NWI classification:	PUB		
Are climatic / hydrologic conditions on the site	<u> </u>	Yes x		explain in Remarks.)		
, ,	•		No (If no, endangement of the community of the			
Are Vegetation, Soil, or Hydrole	<del></del>		·	<del></del>		
Are Vegetation, Soil, or Hydrole SUMMARY OF FINDINGS – Attach 9	<u> </u>		l, explain any answers in	,		
SUMMART OF THE INDINGS - Attach			uons, transects, im	portant reatures, etc.		
' ' '	Yes X No	Is the Sampled Area				
•	Yes x No	within a Wetland?		No X		
, 0,	Yes X No	If yes, optional We	tland Site ID: Wetland	1C-D		
Remarks: (Explain alternative procedures he	re or in a separate report.)					
Pond with fringe 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	(B6)		
X Surface Water (A1)	Water-Stained Leaves (B9	9) Drainage Patterns (B10)				
X High Water Table (A2)	x Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	x Dry-Season Water Table (C2)				
Water Marks (B1)	C1) Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on		Saturation Visible or	n Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron	on (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction in		Tilled Soils (C6) <u>x</u> Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
x Inundation Visible on Aerial Imagery (B7)						
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):	0				
Saturation Present? Yes x	No Depth (inches):	Wetlan	d Hydrology Present?	YesX_ No		
(includes capillary fringe)	" to a control and a battage provide	' transtions) if	.9-1.1			
Describe Recorded Data (stream gauge, mon	attoring well, aerial priolos, previ	ious inspections), ii	avaliable:			
Remarks:						

ree Stratum (Plot size: 30')	Absolute	Dominant	Indicator			
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:		
· <u></u>				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				
andinar/Charle Charles (District)		- Total Cover				
apling/Shrub Stratum (Plot size:15')				OBL species 65 x1 = 65		
				FACW species 5 x 2 = 10		
·				FAC species 0 x 3 = 0		
·				FACU species0 x 4 =0		
·				UPL species0 x 5 =0		
·				Column Totals: (A) (B		
				Prevalence Index = B/A =1.07		
				Hydrophytic Vegetation Indicators:		
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
erb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%		
Typha latifolia	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Lythrum salicaria	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)		
Carex vulpinoidea	10	No	OBL			
Eupatorium perfoliatum	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
Scirpus atrovirens	5	No	OBL	1 and a state of boundaries and southern depend and an order		
Peltandra virginica	5	No	OBL	<ul> <li>Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.</li> </ul>		
				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.		
2	70	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Acade Vina Chartena (District	70	- Total Covel		of size, and woody plants less than 3.20 it tall.		
/oody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in		
·				height.		
·				Hydrophytic		
·				Vegetation		
				Present?		
		=Total Cover				

SOIL Sampling Point 1C-D Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			x Featur				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
1								
	ncentration, D=Depl	etion, RM	I=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I								or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface (					ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	LRR R,		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B	,				cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Surf		-			e Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		High Chroma S					k Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	e (A11)	Loamy Mucky			R K, L)	Iron-Man	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Mesic Sp	odic (A17)		Depleted Matri	x (F3)				ent Material (F21) <b>(outside MLRA 145</b> )
(MLRA	A 144A, 145, 149B)		Redox Dark Su		-			allow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		x Other (Ex	xplain in Remarks)
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F	8)			
Sandy Re	, ,		Marl (F10) ( <b>LR</b>					rs of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetlan	d hydrology must be present,
							unless	disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: _								
Depth (in	ches):						Hydric Soil Presen	nt? Yes x No
Remarks:	<u> </u>							
	t soils due to standir	ng water a	and dominance by C	OBL spec	cies			
2.4		.9	u u u u	, op o				



Wetland 1C-D - View facing east

Wetland 1C-D - No Soils Collected. Open water pond.

Segment 3 – Package 1C

**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: Whiteh	all/Washington	Sampling Date: 8/11/22		
Applicant/Owner: TDI			State: NY	Sampling Point: 1C-D 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 %: 45		
Subregion (LRR or MLRA): LRR R	Lat: 43 30 24N		-73 25 10W	Datum: WGS84		
Soil Map Unit Name: VeD - Vergennes silty			NWI classification:			
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 loca	tions, transects, in	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: Upland a	adjacent to Wetland 1C-D		
Remarks: (Explain alternative procedures he Mowed roadside.	ere or in a separate report.)					
Mowed roadside.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (r	minimum of two required)		
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns			
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water			
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (0	•		
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) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Position Shallow Aquitard (E			
Inundation Visible on Aerial Imagery (B7		re)	Microtopographic R			
Sparsely Vegetated Concave Surface (B	· — · · ·	3)	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)	<u> </u>					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)			
3. 4.				Total Number of Dominant Species Across All Strata:3(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. Rhus typhina	30	Yes	UPL	FACW species0 x 2 =0			
2.				FAC species0 x 3 =0			
3.				FACU species95 x 4 =380			
4				UPL species35 x 5 =175			
5.				Column Totals: 130 (A) 555 (B)			
6.				Prevalence Index = B/A = 4.27			
7.				Hydrophytic Vegetation Indicators:			
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%			
1. Phleum pratense	65	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Lotus corniculatus	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Cirsium arvense	5	No	FACU	data in Remarks or on a separate sheet)			
4. Artemisia vulgaris	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cichorium intybus	5	No	FACU	- Trobernatio Flydrophytic Vegetation (Explain)			
6.		110	1700	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
•				Definitions of Vegetation Strata.			
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
				diameter at breast neight (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:				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 )						
Tremaiks. (include photo numbers here of on a separ	ate sileet.)						

Sampling Point:

1C-D Upl

SOIL Sampling Point 1C-D Upl

Profile Desc	ription: (Describe t Matrix	to the de		<b>ument th</b> x Feature		ator or co	onfirm the absence o	f indicato	rs.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	(S
0-8	10YR 3/2	100					Loamy/Clayey			
<sup>1</sup> Type: C=Co	ncentration, D=Depl	letion, RN	M=Reduced Matrix, N	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: F	L=Pore Li	ning, M=Mat	rix.
Hydric Soil I	ndicators:						Indicators f	or Probler	matic Hydric	Soils <sup>3</sup> :
Histosol (	(A1)		Dark Surface (	S7)			2 cm Mu	uck (A10) (	LRR K, L, M	LRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (l	LRR R,	Coast P	rairie Redo	ox (A16) ( <b>LR</b>	R K, L, R)
Black His	stic (A3)		MLRA 149B	)			5 cm Mu	ucky Peat	or Peat (S3)	(LRR K, L, R)
—— Hydroger	n Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	1 <b>49B</b> ) Polyvalu	ie Below S	Surface (S8) (	(LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	311) ( <b>LRI</b>	R K, L)	Thin Da	rk Surface	(S9) (LRR K	ί, <b>L</b> )
 Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral (	(F1) ( <b>LR</b> I	R K, L)	Iron-Mai	nganese M	lasses (F12)	(LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmor	nt Floodpla	ain Soils (F19	9) (MLRA 149B)
Mesic Sp	odic (A17)		Depleted Matri	x (F3)			Red Par	ent Materi	al (F21) <b>(out</b>	side MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Sh	allow Dark	Surface (F2	2)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in F	Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F8	3)					
Sandy Re	edox (S5)		Marl (F10) ( <b>LR</b>	RK, L)			<sup>3</sup> Indicato	ors of hydro	ophytic vege	tation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetlar	nd hydrolog	gy must be p	resent,
			_				unless	s disturbed	l or problema	atic.
Restrictive L	ayer (if observed):									
Type:	Roo	k								
Depth (in	ches):	8					Hydric Soil Prese	nt?	Yes	No X
							,			
Remarks:										



Upland 1C-D (right side of photo) - View facing east



**Upland 1C-D - Soils** 

Segment 3 – Package 1C

**SITE PHOTOGRAPHS** 

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/10/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-W-Wet
Investigator(s): KW, KS	Section, Township, Range: Whitehall
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,50',43.26"N	Long: 73°,41',62.01"W Datum:
Soil Map Unit Name: Orthents and Psamments - dredge spoils	NWI classification: PSS
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 disturt	<del></del>
Are Vegetation , Soil , or Hydrology naturally problema	<del></del>
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important leatures, 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.)	
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 (E	
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 the	
Drift Deposits (B3) Presence of Reduced Iro	· <i>i</i> · · · · · · · · · · · · · · · · · · ·
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:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Remarks.	

10 10 5	Yes Yes Yes	FACW FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 7		
5			That Are OBL, FACW, or FAC: 7		
	Yes			(A)	
			T	. ( /	
			Total Number of Dominant Species Across All Strata: 8	(B)	
	,		·	. ( /	
			Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5%	(A/B	
				. (, , , ,	
25	=Total Cover				
	,			_	
25	Yes	FAC		_	
				_	
-				_	
<u> </u>	INO	TACO		—	
				<b>—</b>	
				(B	
40	Tatal Oassa				
40	= rotal Cover				
			<del></del>		
				portir	
10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5	<u>No</u>	OBL			
5	No		<sup>1</sup> Indicators of hydric soil and wetland hydrology	nust	
			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 h	eight	
			Sapling/shrub – Woody plants less than 3 in. D	вн	
			and greater than or equal to 3.28 ft (1 m) tall.		
			Herb – All herbaceous (non-woody) plants rega	ırdles	
70	=Total Cover				
			Woody vines — All woody vines greater than 3 '	ορ ft i	
5	Yes	FACU	height.	.0 11 1	
			Hydrophytic		
			Vegetation   Present?   Yes X   No		
5 =Total Cover					
	25 10 5 40 30 20 10 5 5	25	25	OBL species x1 = FACW FACW FACW FACW species x2 = FACW species x3 = FACU species x4 = UPL species x5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation x2 - Dominance Test is >50% 30 Yes FACW 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sup data in Remarks or on a separate sheet) 5 No OBL Problematic Hydrophytic Vegetation¹ (Expla ¹Indicators of hydric soil and wetland hydrology represent, 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 hydrophytic vegetation of size, and woody plants less than 3 in. D 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 vines − All woody vines greater than 3.2 height.  Hydrophytic Vegetation Yes X No	

SOIL Sampling Point GR-W-Wet

		the de				tor or c	onfirm the absence o	f indicators.)
Depth (in ab a a)	Matrix	0/		x Featur		1 2	Tarahama	Dawaadka
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 2/1	97	10YR 5/6	3	С	M	Mucky Loam/Clay	Prominent redox concentrations
								_
-								
								_
1- 0.0							2, ,,	
•	ncentration, D=Deple	tion, RIV	=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I			Polyvalue Belo	w Surfa	co (S8) (I	I DD D		or Problematic Hydric Soils <sup>3</sup> : ack (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B)		ce (50) (i	LIXIX IX,		rairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	•	(LRR R	, MLRA		icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S		•		· —	ie Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky N					rk Surface (S9) ( <b>LRR K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		X Redox Dark Su	ırface (F	<sup>-</sup> 6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b> l	<b>R K, L</b> )			Other (E	xplain in Remarks)
Dark Sur	race (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetatic	n and w	etland hydrology mu	ıst be pr	esent ur	nless dist	turbed or problematic.	
	ayer (if observed):	in and w	onana nyarology ma	ю во р	000111, 41	11000 410	The state of problematic.	
Type:	, , , , , , , , , , , , , , , , , , , ,							
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No
Remarks:							1 .,	
	n is revised from Nort	hcentral	and Northeast Regi	onal Su	pplement	t Version	2.0 to include the NR0	CS Field Indicators of Hydric Soils,
	2015 Errata. (http://wv							,



Wetland G-R-W- View facing North



Wetland G-R-W- Soils

# Package 1C

# SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/10/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-W-Up
Investigator(s): KW, KS	Section, Township, Range: Whitehall
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): Concave Slope %: 10
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,50',43.26"N	Long: 73°,41',62.01"W Datum:
Soil Map Unit Name: Orthents and Psamments - dredge spoils	NWI classification: None
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 disturt	
Are Vegetation, Soil, or Hydrology naturally problema	
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:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	<u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

	A I 1 1	D! '	la al! !	<u> </u>
ree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
· <u> </u>				Number of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 5 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15' )		-		OBL species x 1 =
Dhua tunhina	10	Yes	UPL	FACW species x 2 =
Knus typnina				FAC species x 3 =
				· — —
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (E
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:)				2 - Dominance Test is >50%
Solidago canadensis	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Centaurea stoebe	10	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
Alliaria petiolata	10	Yes	FACU	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
n				
1.				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		T-4-1 0		Herb – All herbaceous (non-woody) plants, regardles
	30	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size: 15' )				Woody vines – All woody vines greater than 3.28 ft
Rubus allegheniensis	5	Yes	FACU	height.
				Hydrophytic
· <u>-</u>				Vegetation
·				Present?
	5	=Total Cover		

SOIL Sampling Point GR-W-Up

Depth Matrix (inches) Color (moist) %	Redox Fe	% Type <sup>1</sup> Lo		exture	Rema	nrks	
<sup>1</sup> Type: C=Concentration, D=Depletion, F	RM=Reduced Matrix, MS=	Masked Sand Gr	ains.	<sup>2</sup> Location: PL=Pore			
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)	Polyvalue Below S  MLRA 149B)  Thin Dark Surface  High Chroma Sand Loamy Mucky Mind Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surface Depleted Dark Surface Redox Depression Marl (F10) (LRR K	(S9) (LRR R, ML ds (S11) (LRR K, eral (F1) (LRR K, trix (F2) 3) de (F6) face (F7) s (F8)	RA 149B) L)	2 cm Muck (A1 Coast Prairie R 5 cm Mucky Pe Polyvalue Belo Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (* Red Parent Ma Very Shallow D Other (Explain	0) (LRR K, L, edox (A16) (L eat or Peat (S3 w Surface (S8 eace (S9) (LRR e Masses (F1. dplain Soils (FTA6) (MLRA 1 terial (F21) eark Surface (F	MLRA 149 RR K, L, R () (LRR K, I ) (LRR K, L K, L) 2) (LRR K, 19) (MLRA 144A, 145,	L, R) L, R) L, R) 149B)
<sup>3</sup> Indicators of hydrophytic vegetation and Restrictive Layer (if observed):  Type: cobble/ballast	wetland hydrology must b	pe present, unless	disturbed or	problematic.			
Depth (inches): 0  Remarks:			Hydri	ic Soil Present?	Yes	No	<u>X</u>
No soil hole dug due to ballast sideslope	adjacent to wetland boun	dary.					



Upland G-R-W- View facing West



**Upland G-R-W- View facing South** 

# Package 1C

# 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: Whiteh	all/Washington	Sampling Date: 11/3/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P1C-A-5 Wet			
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	x, none): concave	Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 43-29-41.09N		73-25-29.65W	 Datum: WGS84			
Soil Map Unit Name: Kingsbury silty clay (Kb		~	NWI classification:	<del></del>			
Are climatic / hydrologic conditions on the site	·	Yes x		explain in Remarks.)			
Are Vegetation , Soil , or Hydrol			nal Circumstances" prese	,			
<del></del>			·				
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, in	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea				
Hydric Soil Present?	Yes X No	within a Wetland	? Yes <u>X</u>	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 (n	minimum of two required)			
Primary Indicators (minimum of one is require	ed: check all that apply)		Surface Soil Cracks				
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (				
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	;1)	Crayfish Burrows (0	C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres or			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)	X Geomorphic Position				
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	•			
Inundation Visible on Aerial Imagery (B7)	· ——	s)	Microtopographic R	` '			
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (	D5)			
Field Observations: Surface Water Present? Yes	No v Donth (inches):						
Surface Water Present? Yes Water Table Present? Yes	No x Depth (inches): _ No x Depth (inches): _	<del></del>					
Saturation Present? Yes x	No Depth (inches):		d Hydrology Present?	Yes X No			
(includes capillary fringe)			a Hydrology i rosciic.	165 <u>/ 110</u>			
Describe Recorded Data (stream gauge, mor	 nitoring well, aerial photos, prev	/ious inspections), if	available:				
,	• • • • •	, ,					
Remarks:							

Total Objections (Plateins 201	Absolute	Dominant	Indicator	Burden Tarkundakan			
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:			
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)			
3.				Total Number of Dominant			
4				Species Across All Strata: 2 (B)			
5				Percent of Dominant Species			
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species100 x 1 =100			
1. Cornus racemosa	15	Yes	FAC	FACW species 5 x 2 = 10			
2.				FAC species 20 x 3 = 60			
3.				FACU species 0 x 4 = 0			
4.				UPL species 0 x 5 = 0			
5.				Column Totals: 125 (A) 170 (B)			
6.				Prevalence Index = B/A = 1.36			
7.				Hydrophytic Vegetation Indicators:			
	 15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%			
1. Carex lacustris	85	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Lythrum salicaria	15	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Cornus racemosa	5	No	FAC	data in Remarks or on a separate sheet)			
Symphyotrichum novae-angliae	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.							
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8.				Tree – Woody plants 3 in. (7.6 cm) or more in			
9.		<u> </u>		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			
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in			
1				height.			
2.							
3.				Hydrophytic Vegetation			
4.				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						
	,						

Sampling Point: P1C-A-5 Wet

SOIL Sampling Point P1C-A-5 Wet

	•	o the de	-			ator or co	onfirm the absence of	f indicators.)
Depth	Matrix	0/		x Featur		1 2	Taratrona	Damandra
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 3/1	100					Loamy/Clayey	
4-19	10YR 4/2	80	7.5YR 4/6	_20_	C	M	Loamy/Clayey	Prominent redox concentrations
								_
<sup>1</sup> Type: C=Co	ncentration D=Denie	etion RI	M=Reduced Matrix, N	 AS=Mas	ked Sand		<sup>2</sup> l ocation: P	L=Pore Lining, M=Matrix.
Hydric Soil In		J. 1011, 1 (1	VI TROUBOR WIGHTX, IV	no mas	nou oun	a Graino.		or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface (	S7)				ick (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3)		MLRA 149B	)			5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	I <b>49B</b> ) Polyvalu	ie Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		High Chroma S					rk Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Mucky			<b>R K, L</b> )		nganese Masses (F12) (LRR K, L, R)
	k Surface (A12)		Loamy Gleyed		F2)			nt Floodplain Soils (F19) (MLRA 149B)
I —	odic (A17)		X Depleted Matri		-0)			ent Material (F21) (outside MLRA 145)
-	<b>A 144A, 145, 149B)</b> ucky Mineral (S1)		Redox Dark Su Depleted Dark		-			allow Dark Surface (F22) Explain in Remarks)
I —	eyed Matrix (S4)		Redox Depress				Other (E	Apiairi ir Remarks)
Sandy Re			Marl (F10) (LR		0)		<sup>3</sup> Indicato	ors of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) <b>(MLF</b>	RA 145)		nd hydrology must be present,
	,		_	,	, ,	•		s disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:	none	)						
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No
Remarks:								
1								



Wetland P1C-A-5- View facing east



Wetland P1C-A-5- Soils

Phase 1

# **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: Whiteha	all/Washington	Sampling Date: 11/3/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P1C-A-5 Upl		
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	x, none): none	Slope %: 0		
Subregion (LRR or MLRA): LRR R	Lat: 43-29-40.77N	•	73-25-30.39W	 Datum: WGS84		
Soil Map Unit Name: Kingsbury silty clay (Kt	<del></del>		NWI classification			
Are climatic / hydrologic conditions on the site		Yes x		o, explain in Remarks.)		
Are Vegetation , Soil , or Hydro			al Circumstances" pre	,		
<del></del>			·			
Are Vegetation, Soil, or Hydro			d, explain any answers	·		
SUMMARY OF FINDINGS – Attach	site map snowing samp	Pling point local	lions, transects, i	mportant reatures, etc.		
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea ·			
Hydric Soil Present?	Yes No X	within a Wetland?		No X		
Wetland Hydrology Present?	Yes No _X	If yes, optional We	tland Site ID:			
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
successional old field						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Crac	eks (B6)		
Surface Water (A1)	Water-Stained Leaves (B	59)	Drainage Patterns			
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Wate			
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows			
Sediment Deposits (B2)	Oxidized Rhizospheres or					
Drift Deposits (B3)	Presence of Reduced Iron	` ,	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	· / —			
Inundation Visible on Aerial Imagery (B7		re)	Shallow Aquitard (D3)  Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B	· —	.5)	FAC-Neutral Test			
Field Observations:	<u></u>			. (55)		
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:						

Cover OBL s FAC FACU FACS FACU UPL s Column	V species         0         >           species         25         >           d species         70         >           species         20         >	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
That A Total I Specie Percei That A  Preva  Cover OBL s  FACU FAC S FACU UPL s Column	Are OBL, FACW, or FAC:  Number of Dominant es Across All Strata:  Int of Dominant Species Are OBL, FACW, or FAC:  Ilence Index worksheet:  Total % Cover of:  Species 0 >  V species 0 >  Species 25 >  Species 70 >  Species 20 >	3 ( 33.3% ( Multiply by: x 1 = 0 x 2 = 0
That A Total I Specie Percei That A  Preva  Cover OBL s  FACU FAC S FACU UPL s Column	Are OBL, FACW, or FAC:  Number of Dominant es Across All Strata:  Int of Dominant Species Are OBL, FACW, or FAC:  Ilence Index worksheet:  Total % Cover of:  Species 0 >  V species 0 >  Species 25 >  Species 70 >  Species 20 >	3 ( 33.3% ( Multiply by: x 1 = 0 x 2 = 0
Cover OBL s FAC FACW FACU UPL s Column	es Across All Strata:  nt of Dominant Species Are OBL, FACW, or FAC:  Ilence Index worksheet:  Total % Cover of:  Species 0 >  V species 0 >  Species 25 >  Species 70 >  Species 20 >  Species 20 >	33.3% (  Multiply by:  x 1 = 0  x 2 = 0
Cover OBL s FAC FACW FACU UPL s Column	es Across All Strata:  nt of Dominant Species Are OBL, FACW, or FAC:  Ilence Index worksheet:  Total % Cover of:  Species 0 >  V species 0 >  Species 25 >  Species 70 >  Species 20 >  Species 20 >	33.3% (  Multiply by:  x 1 = 0  x 2 = 0
Cover OBL s  Yes FAC FACW FACU FAC S  Column	Are OBL, FACW, or FAC:  Illence Index worksheet:  Total % Cover of:  Species 0 >  V species 0 >  Species 25 >  Species 70 >  Species 20 >	Multiply by: x 1 = 0 x 2 = 0
Cover OBL s  Yes FAC FACW FACU FAC S  Column	Are OBL, FACW, or FAC:  Illence Index worksheet:  Total % Cover of:  Species 0 >  V species 0 >  Species 25 >  Species 70 >  Species 20 >	Multiply by: x 1 = 0 x 2 = 0
Cover OBL s  'es FAC FACW FACS FACU UPL s Colum	Species	Multiply by: x 1 = 0 x 2 = 0
Cover OBL s OBL s OBL s FACU FACW FACU UPL s Column	Total % Cover of:         O           species         0           V species         0           species         25           species         70           species         20	x 1 = 0 x 2 = 0
OBL s FAC FACW FAC S FACU UPL s Colum	species         0         >           V species         0         >           species         25         >           species         70         >           species         20         >	x 1 = 0 x 2 = 0
Yes FAC FACW Yes FACU FAC S FACU UPL S Column	V species         0         >           species         25         >           d species         70         >           species         20         >	x 2 = 0
res FACU FAC s FACU UPL s Colum	species         25         25           species         70         20           species         20         20	
FACU UPL s Colum	species	x 3 =
UPL s	species 20 >	
Colum		x 4 =280
	nn Totals: 115 (	x 5 =100
Hydro		(A) <u>455</u>
Hydro	Prevalence Index = B/A	= 3.96
	ophytic Vegetation Indica	ators:
Cover1	- Rapid Test for Hydrophy	tic Vegetation
2	- Dominance Test is >50%	6
No FAC 3	- Prevalence Index is ≤3.0	) <sup>1</sup>
es FACU 4	- Morphological Adaptation	ns <sup>1</sup> (Provide supp
No UPL	data in Remarks or on a	separate sheet)
No UPL Pr	roblematic Hydrophytic Ve	egetation <sup>1</sup> (Explair
<u> </u>		
	ators of hydric soil and wet esent, unless disturbed or p	
	itions of Vegetation Strat	
Bellin	itions of Vegetation Otra	tu.
	- Woody plants 3 in. (7.6 c	
diame	eter at breast height (DBH)	, regardless of ne
	ng/shrub – Woody plants	
and gr	reater than or equal to 3.28	8 ft (1 m) tall.
	– All herbaceous (non-woo	
Cover of size	e, and woody plants less th	nan 3.28 ft tall.
Wood	ly vines – All woody vines	greater than 3.28
I Venet		No X
_	Wood height Hydro Veget	Woody vines – All woody vines height.  Hydrophytic Vegetation

SOIL Sampling Point P1C-A-5 Upl

Profile Desc Depth	ription: (Describe to Matrix	o the de	•	<b>:ument th</b> ox Featur		ator or co	onfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-4	10YR 4/3	100					Loamy/Clayey		
4-18	10YR 4/4	90	10YR 4/6	10	С	М	Loamy/Clayey	Distinct redox cor	ncentrations
4 10	1011(4)4		1011(4/0				Loamyrolayey	Distinct redex cor	iocritications
				. —					
1- 0.0		<del></del>	4.5.1.1.1.1.1				21 11 51		<u> </u>
Hydric Soil I	oncentration, D=Deple	etion, RN	/I=Reduced Matrix,	MS=Masi	ked Sand	d Grains.		=Pore Lining, M=Mater Problematic Hydric	•
Histosol			Dark Surface	(S7)				k (A10) (LRR K, L, M	
	ipedon (A2)		Polyvalue Bel		ce (S8) (	LRR R.		airie Redox (A16) ( <b>LR</b>	•
Black His			MLRA 149E		() (			ky Peat or Peat (S3)	•
	n Sulfide (A4)		Thin Dark Sur	,	) (LRR R	, MLRA 1		Below Surface (S8) (	
	Layers (A5)		High Chroma					Surface (S9) (LRR K	
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	RK, L)	Iron-Mang	ganese Masses (F12)	(LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	ל Matrix (	F2)		Piedmont	Floodplain Soils (F19	9) (MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matr	ix (F3)				nt Material (F21) <b>(out</b>	
	A 144A, 145, 149B)		Redox Dark S	-	-			low Dark Surface (F2	2)
	ucky Mineral (S1)		Depleted Dark				Other (Ex	plain in Remarks)	
	leyed Matrix (S4)		Redox Depres	-	8)		3Indicator	a of budrophytic year	tation and
	edox (S5) Matrix (S6)		Marl (F10) ( <b>LF</b> Red Parent M		21) (MI F	DA 145)		s of hydrophytic vege I hydrology must be p	
ourpped	Matrix (50)		Red Falent W	ateriai (i	21) (IVILI	VA 140)		disturbed or problema	
Restrictive L	ayer (if observed):						u555	<u> </u>	
Type:	none	)							
Depth (in	nches):						Hydric Soil Present	t? Yes	No X
Remarks:				<del></del>					<del></del> _
rtemants.									



**Upland P1C-A-5- View facing southwest** 



**Upland P1C-A-5- Soils** 

Phase 1

# **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: W	hitehall/Washington	Sampling Date: 11/3/22
Applicant/Owner: TDI		State: NY	Sampling Point: P1C-B-6 Wet
Investigator(s): N. Frazer & C. Einstein	Section	n, Township, Range:	<u> </u>
Landform (hillside, terrace, etc.): depression	Local relief (concave, c	convex, none): concave	Slope %: 0
Subregion (LRR or MLRA): LRR R		ong: 73-25-33.68W	Datum: WGS84
Soil Map Unit Name: Vergennes silty clay loam (		NWI classification:	PEM
Are climatic / hydrologic conditions on the site typ			explain in Remarks.)
, , , , , , , , , , , , , , , , , , , ,	-	<del></del>	
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" prese	
Are Vegetation, Soil, or Hydrology		eeded, explain any answers in	
SUMMARY OF FINDINGS – Attach site	te map showing sampling point l	ocations, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes	es X No Is the Sample	ed Δrea	
Hydric Soil Present? Yes			No
Wetland Hydrology Present? Yes	<del></del>	al Wetland Site ID:	
Remarks: (Explain alternative procedures here o	or in a separate report.)		
Wetland B/C- data point taken in shallow emerge		nal.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	
Primary Indicators (minimum of one is required;		Surface Soil Cracks	` '
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (E	·
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B1	·
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water T	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	,
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (	· · · ——	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed	` '
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6	· —	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D:	·
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Re	
Sparsely Vegetated Concave Surface (B8)	<del></del>	X FAC-Neutral Test (D	)5)
Field Observations:	Donth (inches)		
	No x Depth (inches):		
	No x Depth (inches): No Depth (inches): 5	-41-nd Undralage Procent?	Vaa V No
Saturation Present? Yes x No (includes capillary fringe)	No Depth (inches): 5 <b>W</b> o	etland Hydrology Present?	YesX No
Describe Recorded Data (stream gauge, monitor	pring well aerial photos previous inspection		
Dood., 2000, 4000,	Ting tron, action prictice, pro	io), ii aranasis.	
Remarks:			
Connected to the canal.			

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata: (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 85 x 1 = 85
1. Cornus amomum	10	Yes	FACW	FACW species 30 x 2 = 60
2				FAC species 0 x 3 = 0
3				FACU species0 x 4 =0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 115 (A) 145 (B)
6				Prevalence Index = B/A = 1.26
7.				Hydrophytic Vegetation Indicators:
··	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Harb Stratum (Diataiza: F' )	10	- Total Cover		X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5' )	0.5	V	ODI	<del>-</del>
1. Carex lacustris	85	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
<ol> <li>Solidago gigantea</li> <li></li></ol>	20	<u>No</u>	FACW	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. 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 and greater than or equal to 3.28 ft (1 m) tall.
12.				
	105	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
· -		=Total Cover		
Demarka: (Include photo numbers here or on a cons	roto oboot \	10101 00101		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: P1C-B-6 Wet

SOIL Sampling Point P1C-B-6 Wet

		o the de	•			ator or co	onfirm the absence of	f indicators.)
Depth (inches)	Matrix	0/		x Featur		1002	Toydura	Domorko
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 4/1	100					Loamy/Clayey	
10-18	10YR 4/2	70	10YR 4/6	30	C	M	Loamy/Clayey	Prominent redox concentrations
							<del></del> -	
							·	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RI	M=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Dark Surface (	S7)			2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast Pr	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3)		MLRA 149B	)			5 cm Mu	cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen	Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	I <b>49B</b> ) Polyvalu	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		High Chroma S	Sands (S	611) ( <b>LR</b> I	R K, L)		k Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)	Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Dar	k Surface (A12)		Loamy Gleyed		F2)		Piedmon	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
I —	odic (A17)		X Depleted Matri					ent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		-			allow Dark Surface (F22)
I —	ucky Mineral (S1)		Depleted Dark				Other (E	xplain in Remarks)
	eyed Matrix (S4)		Redox Depress		8)		3, ,,	
Sandy Re			Marl (F10) ( <b>LR</b>		(O.4) (B.8)	- 4 4 <del>-</del> 1		rs of hydrophytic vegetation and
Stripped I	Matrix (S6)		Red Parent Ma	iteriai (F	21) (MLI	KA 145)		d hydrology must be present,
Postrictive L	ayer (if observed):						uniess	disturbed or problematic.
Type:	none							
		-						
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No
Remarks:								



Wetland P1C-B-6- View facing north



Wetland P1C-B-6- Soils

Phase 1

# **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:	: Whitehall/Washington	Sampling Date: 11/3/22		
Applicant/Owner: TDI		State: NY	Sampling Point: P1C-B-6 Upl		
Investigator(s): N. Frazer & C. Einstein	Sec	ction, Township, Range:			
Landform (hillside, terrace, etc.): flat	Local relief (concav	/e, convex, none): none	Slope %: 0		
Subregion (LRR or MLRA): LRR R Lat:	43-29-41.37N	Long: 73-25-33.95W	 Datum: WGS84		
Soil Map Unit Name: Vergennes silty clay loam (VeB)		NWI classification:	 n/a		
Are climatic / hydrologic conditions on the site typical for the	his time of vear?	es x No (If no, e	explain in Remarks.)		
Are Vegetation, Soil, or Hydrology	-	Are "Normal Circumstances" preser	•		
Are Vegetation , Soil , or Hydrology		If needed, explain any answers in F			
SUMMARY OF FINDINGS – Attach site map			·		
Hydrophytic Vegetation Present? Yes	No X Is the Sar	mpled Area	<u> </u>		
Hydric Soil Present? Yes X	No X Is the Sar		No X		
Wetland Hydrology Present? Yes		tional Wetland Site ID:	<u> </u>		
Remarks: (Explain alternative procedures here or in a se					
Upland B/C- successional old field.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)		
Primary Indicators (minimum of one is required; check al	l that apply)	Surface Soil Cracks	(B6)		
Surface Water (A1) Water-	Surface Water (A1) Water-Stained Leaves (B9)				
<del></del>	ic Fauna (B13)	Moss Trim Lines (B1			
	Deposits (B15)	Dry-Season Water T	·		
	gen Sulfide Odor (C1)	Crayfish Burrows (C	,		
	ed Rhizospheres on Living Roc				
	nce of Reduced Iron (C4) at Iron Reduction in Tilled Soils	· · · · · · · · · · · · · · · · · · ·			
<del></del>	Muck Surface (C7)	d Soils (C6) — Geomorphic Position (D2) Shallow Aquitard (D3)			
l <del></del> · · · · /	(Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)	(Explain in terms)	FAC-Neutral Test (D			
Field Observations:		`	,		
Surface Water Present? Yes No x	Depth (inches):				
Water Table Present? Yes No x	Depth (inches):				
Water Table Present?         Yes         No         x           Saturation Present?         Yes         No         x	Depth (inches):	Wetland Hydrology Present?	Yes No X		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well,	, aerial photos, previous inspec	ctions), if available:			
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC:0 (A)
				Total Number of Deminent
				Total Number of Dominant Species Across All Strata: 3 (B)
i				Bound of Dominant Charles
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
	· <u></u>	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species 0 x1 = 0
. Lonicera tatarica	, 15	Yes	FACU	FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
				FACU species 50 x 4 = 200
				UPL species 70 x 5 = 350
				Column Totals: 120 (A) 550 (B
	· -			Prevalence Index = B/A = 4.58
				Hydrophytic Vegetation Indicators:
·		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		- Total Gover		2 - Dominance Test is >50%
. Pastinaca sativa	50	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
2. Solidago canadensis	15	No Yes	UPL	data in Remarks or on a separate sheet)
B. Daucus carota				
Lotus corniculatus  Uicia cracca	. <u>15</u> 5	No No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
S				·
-	·			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
	105	=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
				height.
2				Hydrophytic
3				Vegetation
				Present?
l		=Total Cover		

SOIL Sampling Point P1C-B-6 Upl

Depth	Matrix		Redox	κ Featur	es		onfirm the absence o	· · · · · · · · · · · · · · · · · · ·
(inches)	Color (moist)	<u></u> %	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 5/1	95	10YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
12-15	10YR 5/1		10YR 4/6	30	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
		<u> </u>			<u> </u>	<u> </u>		
1Tuno: C=Co	neentration D-Dayl						21 continu	PL=Pore Lining, M=Matrix.
Hydric Soil II  Histosol ( Histic Ep Black His Hydroger Stratified Depleted Thick Da Mesic Sp (MLR/ Sandy M Sandy G Sandy Re Stripped	ndicators: (A1) ipedon (A2)		Dark Surface (Spolyvalue Belomure MLRA 149B) Thin Dark Surface (Spolyvalue Belomure MLRA 149B) Thin Dark Surface High Chroma Spolyvalue Below Mucky In Loamy Gleyed X Depleted Matrix Redox Dark Surface Depleted Dark Redox Depress Marl (F10) (LR Red Parent Mark)	S7) w Surfa ) ace (S9 Sands (S Mineral Matrix ( x (F3) urface (F Surface Sions (F R K, L)	ce (S8) (I ) ( <b>LRR R</b> S11) ( <b>LRI</b> (F1) ( <b>LRI</b> F2) F6) : (F7)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators f  2 cm Mu Coast P 5 cm Mu Thin Dai Iron-Mai Piedmor Red Par Very Sh Other (E	or Problematic Hydric Soils <sup>3</sup> :  uck (A10) (LRR K, L, MLRA 149B)  rairie Redox (A16) (LRR K, L, R)  ucky Peat or Peat (S3) (LRR K, L, R)  ue Below Surface (S8) (LRR K, L)  rk Surface (S9) (LRR K, L)  rganese Masses (F12) (LRR K, L, R)  nt Floodplain Soils (F19) (MLRA 149B)  rent Material (F21) (outside MLRA 145)  allow Dark Surface (F22)  explain in Remarks)  ors of hydrophytic vegetation and  nd hydrology must be present,  s disturbed or problematic.
Type: _ Depth (in	none	e					Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



**Upland P1C-B-6- View facing north** 



**Upland P1C-B-6- Soils** 

Phase 1

# **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: Whiteh	all/Washington	Sampling Date: 11/3/22		
Applicant/Owner: TDI		·	State: N	Y Sampling Point: P1C-D-3 Wet		
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	x, none): none	Slope %: 0		
Subregion (LRR or MLRA): LRR R	Lat: 43-29-42.52N	•	73-25-41.01W	 Datum: WGS84		
Soil Map Unit Name: Hollis-Charlton associa		~	NWI classification	<del></del>		
Are climatic / hydrologic conditions on the site		Yes x		no, explain in Remarks.)		
, ,	,		nal Circumstances" p	,		
Are Vegetationx , Soilx , or Hydrol			·			
Are Vegetation, Soil, or Hydrol SUMMARY OF FINDINGS – Attach	<del></del>		d, explain any answer			
Li barabata Vanatatian Basanta	V - V M-	'- #- Campled A				
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X No	Is the Sampled Awaithin a Wetland		( No		
Wetland Hydrology Present?	Yes X No	If yes, optional We	-	<u> </u>		
Remarks: (Explain alternative procedures he		,,				
Recently plowed common reed marsh.	ne or in a separate report.					
Trooting planet serimine.						
HYDROLOGY						
			Odam/Indicator	- (inim of two required)		
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is require	and chack all that annly)		Surface Soil Cra	s (minimum of two required)		
Surface Water (A1)	Water-Stained Leaves (B	Q)				
High Water Table (A2)	Aquatic Fauna (B13)	9)	Drainage Patterns (B10)  Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1)	Crayfish Burrow			
Sediment Deposits (B2)	X Oxidized Rhizospheres or	•	X Saturation Visib	le on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron	n (C4)				
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	· ` ` `	s)	Microtopograph	, ,		
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Te	st (D5)		
Field Observations:						
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):			:= V N-		
Saturation Present? Yes	No x Depth (inches):	Wetian	d Hydrology Presen	t? Yes X No		
(includes capillary fringe)	nitering well corial photos prov	ricus inapactions) if	svoilable:			
Describe Recorded Data (stream gauge, mor	Altoring well, aerial priotos, prev	vious irispections), ir	avaliable.			
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 2 x 1 = 2
1				FACW species 45 x 2 = 90
2.				FAC species 0 x 3 = 0
3.				FACU species0 x 4 =0
4				UPL species0 x 5 =0
5				Column Totals: 47 (A) 92 (B)
6.				Prevalence Index = B/A =1.96
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	45	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria		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.				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
11.				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	47	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				Hydrophytic
3.				Vegetation
4		-Total Cover		Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Sampling Point: P1C-D-3 Wet

SOIL Sampling Point P1C-D-3 Wet

		the de	-			ator or co	onfirm the absence of in	dicators.)
Depth	Matrix	0/		x Featur		12	Taratrina	Damante
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/1	90	10YR 4/6	10	<u>C</u>	PL/M	Loamy/Clayey	Prominent redox concentrations
12-19	10YR 4/1	_60	10YR 4/6	_40_	C	M	Loamy/Clayey	Prominent redox concentrations
								_
								_
<sup>1</sup> Type: C=Co	ncentration D=Deple	tion RI	———— M=Reduced Matrix, M	 IS=Mas	ked Sand	d Grains	2l ocation: PI =	Pore Lining, M=Matrix.
Hydric Soil Ir		,tion, 14i	W-reduced Matrix, IV	IO-IVIAS	neu Garn	d Oranis.		Problematic Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface (	S7)				(A10) (LRR K, L, MLRA 149B)
— ·	pedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,		ie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B		, , ,			Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	<b>149B</b> ) Polyvalue B	selow Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		High Chroma S	Sands (S	811) ( <b>LR</b> I	R K, L)	Thin Dark S	Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Mucky I			RK, L)	Iron-Manga	nese Masses (F12) ( <b>LRR K, L, R</b> )
	k Surface (A12)		Loamy Gleyed		F2)			loodplain Soils (F19) (MLRA 149B)
I —	odic (A17)		X Depleted Matrix					Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		-			w Dark Surface (F22)
<u> </u>	ucky Mineral (S1)		Depleted Dark				Other (Expl	ain in Remarks)
Sandy G	eyed Matrix (S4)		Redox Depress	,	8)		3Indicators	of hydrophytic vegetation and
	Matrix (S6)		Marl (F10) ( <b>LR</b> Red Parent Ma		21) (ML I	DA 145)		nydrology must be present,
Stripped i	viatrix (30)		Red raientivia	iteriai (i	21) (IVILI	140)		sturbed or problematic.
Restrictive L	ayer (if observed):						u555 u.i.	or programme.
Type:	none	•						
Depth (inc	ches):						Hydric Soil Present?	Yes X No
Remarks:	,						, , , , , , , , , , , , , , , , , , , ,	
Recently plow	red.							
, ,								



Wetland P1C-D-3- View facing southwest



Wetland P1C-D-3- Soils

Phase 1

# **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: Whiteh	all/Washington	Sampling Date: 11/3/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P1C-D-3 Upl			
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	x, none): none	Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 43-29-42.46N	-	73-25-40.61W	 Datum: WGS84			
Soil Map Unit Name: Hollis-Charlton associa		<del>-</del>	NWI classification:	<del></del>			
Are climatic / hydrologic conditions on the site		Yes x		, explain in Remarks.)			
Are Vegetation , Soil , or Hydro	,,		nal Circumstances" pres	,			
<del></del>			•				
Are Vegetation, Soil, or Hydro	' <u></u>		d, explain any answers i	•			
SUMMARY OF FINDINGS – Attach	site map snowing samp	pling point local	lions, transects, ii	nportant teatures, etc.			
Hydrophytic Vegetation Present?	Yes X No	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:				
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
Upland mowed agricultural field.							
LIVEROLOCY							
HYDROLOGY							
Wetland Hydrology Indicators:				minimum of two required)			
Primary Indicators (minimum of one is requir			Surface Soil Crack				
Surface Water (A1)	Water-Stained Leaves (B	99)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (I				
Saturation (A3) Water Marks (B1)	Marl Deposits (B15)	24)	Dry-Season Water Table (C2)				
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C Oxidized Rhizospheres or	•	Crayfish Burrows (C8)				
Drift Deposits (B3)	Presence of Reduced Iron		g Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in						
Iron Deposits (B5)	Thin Muck Surface (C7)	111100 00115 (00)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic Relief (D4)				
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:							

	<b>/EGETATION</b> – Use scientific names of plants.  Absolute Dominant Indicator						
ee Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:			
				Number of Dominant Species			
				That Are OBL, FACW, or FAC: 1 (A)			
<del></del>				Total Number of Dominant Species Across All Strata: 1 (B)			
				Species Across All Strata: 1 (B)			
				Percent of Dominant Species			
				That Are OBL, FACW, or FAC:100.0%(A/E			
				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size:)				OBL species0 x 1 =0			
				FACW species 4 x 2 = 8			
				FAC species 95 x 3 = 285			
				FACU species 4 x 4 = 16			
				UPL species 2 x 5 = 10			
				Column Totals: 105 (A) 319 (E			
				Prevalence Index = B/A = 3.04			
		-Total Cavar		Hydrophytic Vegetation Indicators:			
orb Stratum (Diat size: F' )		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
erb Stratum (Plot size: 5' )	0.5	V.	E40	X 2 - Dominance Test is >50%			
Setaria pumila	95	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Phragmites australis	4	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
Vicia cracca	2	No	UPL	data in Remarks of on a separate sheet)			
Lotus corniculatus	2	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
Trifolium pratense	1	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
Cirsium arvense	1	No	FACU	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.			
				and greater than or equal to 3.20 ft (1 fif) tail.			
2.				Herb – All herbaceous (non-woody) plants, regardles			
	105	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
oody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft			
				height.			
				Hydrophytic			
				Vegetation Present? Yes X No			
		=Total Cover					

SOIL Sampling Point P1C-D-3 Upl

Depth	Matrix		Redo	x Featur	es		onfirm the absence o	,	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-11	10YR 4/1	100					Loamy/Clayey		
11-17	10YR 5/2	70	10YR 5/4	30	<u> </u>	_M_	Loamy/Clayey	Distinct redox	concentrations
		<u> </u>		_	<u> </u>	<u> </u>			
1Type: C=Ce	uncentration D-Depl	otion PM	-Poduced Matrix A		Lod Son		2l postion: D	DI - Doro Lining M-N	Actrix
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Mesic Spodic (A17)  (MLRA 144A, 145, 149B)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):			LRR R, , MLRA 1 R K, L) R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)					
Type: _	none	е					Hydric Soil Presei	nt? Yes	NoX
Remarks:									



**Upland P1C-D-3- View facing northeast** 



**Upland P1C-D-3- Soils** 

Phase 1

# 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: Whiteh	all/Washington	Sampling Date: 11/3/22
Applicant/Owner: TDI			State:	NY Sampling Point: P1C-E-2 Wet
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): ditch	Local re	elief (concave, conve	x, none): none	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 43-29-40.17N	•	73-25-42.92W	 Datum: WGS84
Soil Map Unit Name: Vergennes silty clay (V			NWI classific	
Are climatic / hydrologic conditions on the site	,	Yes x		(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydro	,		nal Circumstances	,
<del></del>	<del></del>			· — —
Are Vegetation, Soil, or Hydro			d, explain any answ	·
SUMMARY OF FINDINGS – Attach	site map snowing samp	pling point loca	tions, transect	is, important features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes_	XNo
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures he				
Common reed marsh, part of roadside ditch	corridor.			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil (	
Surface Water (A1)	Water-Stained Leaves (B	i9)	Drainage Pat	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Li	nes (B16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season \	Water Table (C2)
—— Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burr	
Sediment Deposits (B2)	Oxidized Rhizospheres or	• , ,		sible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron			tressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic I	
Iron Deposits (B5)	Thin Muck Surface (C7)	1	Shallow Aquit	, ,
Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B	· —	.s)	X FAC-Neutral	phic Relief (D4)
<del></del>	<u>'0)</u>	<del></del>	A FAC-Neutiai	Test (D5)
Field Observations: Surface Water Present? Yes	No v Denth (inches):			
Surface Water Present? Yes Water Table Present? Yes	No x Depth (inches): _ No x Depth (inches): _			
Saturation Present? Yes	No x Depth (inches):		d Hydrology Pres	sent? Yes X No
(includes capillary fringe)	7 Sept. (		u 1., u. 0.0 g,	<u> </u>
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:	
· -		•		
Remarks:				

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:1(A)
3.       4.		- <u></u>		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:100.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species15 x 1 =15
1.				FACW species 90 x 2 = 180
2.				FAC species 2 x 3 = 6
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 107 (A) 201 (B)
6.				Prevalence Index = B/A = 1.88
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	90	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lythrum salicaria	15	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Euthamia graminifolia	2	No	FAC	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. 6.		<u> </u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10		<u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	107	=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' )  1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
				Vegetation Present? Yes X No
4.		=Total Cover		· · · · · · · · · · · · · · · · · · ·
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Sampling Point: P1C-E-2 Wet

SOIL Sampling Point P1C-E-2 Wet

Profile Desci Depth	ription: (Describe to Matrix	o the de	-	<b>ıment th</b> k 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
0-10	10YR 5/1	95	10YR 4/4	5	С	М	Loamy/Clayey	Distinct redox concentrations
10-16	10YR 5/2	80	10YR 4/6	20	С	М	Loamy/Clayey	Prominent redox concentrations
1Type: C=Co Hydric Soil II Histosol ( Histic Ep Black His Hydroger Stratified Depleted Thick Dai Mesic Sp (MLR/ Sandy Mi Sandy Gl Sandy Re	ncentration, D=Deplendicators: A1)	etion, RI	M=Reduced Matrix, M  Dark Surface (impolyvalue Beloman Mucky Impolyvalue Mucky Impol	Matrix (F3) Inface (F8) Inface	ked Sand (ce (S8) ( (LRR R (F1) (LR) (F2) (6) (F7) (F7)	Grains.	<sup>2</sup> Location: F  Indicators f  2 cm Mu  Coast P  5 cm Mu  Polyvalu  Thin Da  Iron-Mai  Piedmor  Red Par  Very Sh  Other (E	PL=Pore Lining, M=Matrix.  For Problematic Hydric Soils <sup>3</sup> :  Luck (A10) (LRR K, L, MLRA 149B)  Trairie Redox (A16) (LRR K, L, R)  Lucky Peat or Peat (S3) (LRR K, L, R)  Lucky
ompped	WidthX (GG)			iteriai (i	21) <b>(III.E</b> I	U- 1-0)		s disturbed or problematic.
	ayer (if observed):							
Type:	none	9					Uhadata Oatt B	
Depth (in Remarks:	cnes):						Hydric Soil Prese	nt? Yes X No



Wetland P1C-E-2- View facing north



Wetland P1C-E-2- Soils

Phase 1

## **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: Whiteha	all/Washington	Sampling Date: 11/3/22
Applicant/Owner: TDI			State: NY	Sampling Point: P1C-E-2 Upl
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	ex, none): none	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 43-29-40.22N	•	73-25-42.70W	 Datum: WGS84
Soil Map Unit Name: Vergennes silty clay (V			NWI classification:	
Are climatic / hydrologic conditions on the site	•	Yes x		, explain in Remarks.)
Are Vegetation , Soil , or Hydrol	,,		nal Circumstances" pres	•
			·	
Are Vegetation, Soil, or Hydrol			d, explain any answers i	•
SUMMARY OF FINDINGS – Attach	Site map snowing same	Diing point iocat	lions, transects, ii	nportant leatures, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland?		No X
Wetland Hydrology Present?	Yes No _X	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Upland agricultural field- mowed.				
HYDROLOGY				
			Casandan/Indicators /	/inimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is require	od: check all that annly)		Surface Soil Crack	(minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B	(0)	Drainage Patterns	
High Water Table (A2)	Aquatic Fauna (B13)	9)	Moss Trim Lines (	
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (	
Sediment Deposits (B2)	Oxidized Rhizospheres or	•		on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stresse	=
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positi	ion (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (	
Inundation Visible on Aerial Imagery (B7)	· <del></del>	s)	Microtopographic I	, ,
Sparsely Vegetated Concave Surface (B	8)		FAC-Neutral Test	(D5)
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			W - No V
Saturation Present? Yes	No x Depth (inches):	Wetian	d Hydrology Present?	Yes No _X_
(includes capillary fringe)  Describe Recorded Data (stream gauge, more	nitering well perial photos prev	vious inspections) if	available:	
Describe Necorded Data (Stream gauge, mor	IIILUTITIY WEII, AETIAI PHOTOS, PICV	nous mapecaona, n	avaliable.	
Remarks:				

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:(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:100.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2.				FAC species 90 x 3 = 270
3.				FACU species 20 x 4 = 80
4.				UPL species 5 x 5 = 25
5.				Column Totals: 115 (A) 375 (B)
6				Prevalence Index = B/A = 3.26
7.				Hydrophytic Vegetation Indicators:
·· ——		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-		X 2 - Dominance Test is >50%
Setaria pumila	90	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Lotus corniculatus	15	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	5	No	FACU	data in Remarks or on a separate sheet)
· · · · · ·			UPL	Duckless skip I hadroneka kip V a matetion 1 (Familia)
4. Vicia cracca	2	No No		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Daucus carota	2	No No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Pastinaca sativa	1	<u>No</u>	UPL	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
	115	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1		<u> </u>		height.
2.				
3.				Hydrophytic Vegetation
4.				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
` '	,			

Sampling Point: P1C-E-2 Upl

SOIL Sampling Point P1C-E-2 Upl

	•	o the de	•			ator or co	onfirm the absence of i	indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
<u>, , , , , , , , , , , , , , , , , , , </u>	Color (moist)		Color (moist)		Туре	Loc		Remarks
0-4	10YR 3/1	100					Loamy/Clayey	
4-16	10YR 5/2	95	10YR 3/4	5	<u>C</u>	M	Loamy/Clayey	Distinct redox concentrations
								_
	_							
								_
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RI	M=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL:	=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Dark Surface (	,			2 cm Muc	k (A10) ( <b>LRR K, L, MLRA 149B</b> )
I —	pedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,		irie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B	•				ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	Sulfide (A4)		Thin Dark Surfa					Below Surface (S8) (LRR K, L)
	Layers (A5)	(* 4 4)	— High Chroma S					Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		anese Masses (F12) (LRR K, L, R)
	k Surface (A12)		Loamy Gleyed		F2)			Floodplain Soils (F19) (MLRA 149B)
l —	odic (A17)		X Depleted Matri		-6)			nt Material (F21) <b>(outside MLRA 145)</b> low Dark Surface (F22)
	<b>A 144A, 145, 149B)</b> ucky Mineral (S1)		Depleted Dark		-			plain in Remarks)
	eyed Matrix (S4)		Redox Depress				Outer (EX	Sam in Remarks)
Sandy Re	• ,		Marl (F10) (LR		<b>O</b> )		<sup>3</sup> Indicators	s of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) <b>(MLF</b>	RA 145)		hydrology must be present,
''	( - /			`	, (	-,		disturbed or problematic.
Restrictive L	ayer (if observed):							·
Type:	none	9						
Depth (inc	ches):						Hydric Soil Present	? Yes X No
Remarks:	<del>_</del>							



**Upland P1C-E-2- View facing east** 



**Upland P1C-E-2- Soils** 

Phase 1

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/11/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-Y-Wet
Investigator(s): KW, KS	Section, Township, Range: Whitehall
Landform (hillside, terrace, etc.): Toeslope Local I	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,47',97.94"N	Long: 73°,42',93.80"W Datum:
Soil Map Unit Name: Kingsbury Silty Clay	NWI classification: PEM/PSS
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	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.)	
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)X Water-Stained Leaves (E	39) X Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	ks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	10 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	— I
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides	5	Yes	FAC	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:5(A)
3. 4.				Total Number of Dominant Species Across All Strata: 7 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)
7				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =
1. Rhus typhina	10	Yes	UPL	FACW species x 2 =
2. Salix nigra	5	Yes	OBL	FAC species x 3 =
3. Lonicera tatarica	5	Yes	FACU	FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X_2 - Dominance Test is >50%
1. Lythrum salicaria	20	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Eutrochium maculatum	10	No	OBL	data in Remarks or on a separate sheet)
4. Symphyotrichum novae-angliae	5	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.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10		·		Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12	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: 15' )		•		
1. Vitis riparia	5	Yes	FAC	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				Hudran budia
3.				Hydrophytic Vegetation
4				Present?
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: GR-Y-Wet

SOIL Sampling Point GR-Y-Wet

		o the de				ator or c	onfirm the absence o	f indicators.)
Depth	Matrix	0/		x Featur		12	Tarabana	Damandra
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/3	100						
6-14	7.5YR 2.5/1	97	10YR 4/6	3	С	M	Mucky Loam/Clay	Prominent redox concentrations
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	/=Reduced Matrix, N	/IS=Mas	ked San	d Grains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil Ir			•					or Problematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epi	pedon (A2)		MLRA 149B	)			Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3)		Thin Dark Surf		-		<b>149B</b> )5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					ie Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky			<b>R K</b> , <b>L</b> )		rk Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri		-6)			nt Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1) eyed Matrix (S4)		X Redox Dark Su Depleted Dark					podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) rent Material (F21)
Sandy Re			Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		<b>-</b> ,			Explain in Remarks)
Dark Surf				, -,			(	,
_	. ,							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	vetland hydrology mu	ust be pr	esent, ui	nless dis	turbed or problematic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
	n is revised from Nor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland G-R-Y- View facing Northwest



Wetland G-R-Y- Soils

Package 1C

# SITE PHOTOGRAPHS

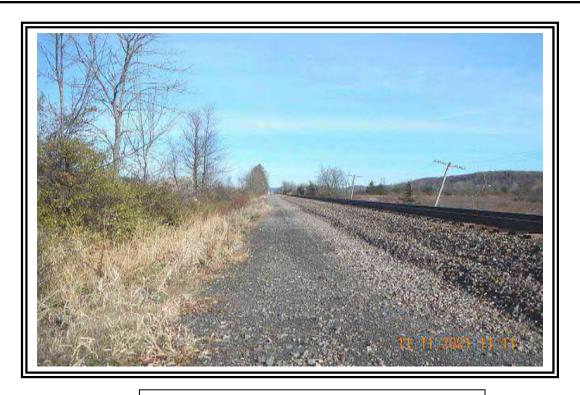
#### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section	City/County: Washington Sampling Date: 11/11/21
Applicant/Owner: CHPE	State: NY Sampling Point: GR-Y-Up
Investigator(s): KW, KS	Section, Township, Range: Whitehall
Landform (hillside, terrace, etc.): Toeslope Local I	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43°,47',97.94"N	Long: 73°,42',93.80"W Datum:
Soil Map Unit Name: Kingsbury Silty Clay	NWI classification: None
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	
Are Vegetation, Soil, or Hydrology naturally problema	
<del></del>	
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.)	
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 (E	
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 (	<del></del>
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3)  Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)  Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:
g, p, p	
Remarks:	

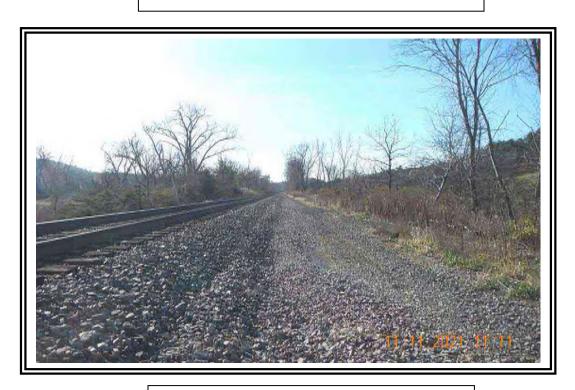
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	5	Yes	FAC	
	-			Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
				Total Number of Dominant
	. ,			Species Across All Strata: 6 (B)
i				Percent of Dominant Species
3.				That Are OBL, FACW, or FAC: 50.0% (A/B)
				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15'	)			OBL species x 1 =
. Rhus typhina	10	Yes	UPL	FACW species x 2 =
Rhamnus cathartica	20	Yes	FAC	FAC species x 3 =
3. Lonicera tatarica	20	Yes	FACU	FACU species x 4 =
i				UPL species x 5 =
5.				Column Totals: (A) (B
S				Prevalence Index = B/A =
,				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
. Setaria faberi	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phalaris arundinacea	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
B. Daucus carota	10	No	UPL	data in Remarks or on a separate sheet)
Symphyotrichum novae-angliae	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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
	55	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:15'	)			Woody vines – All woody vines greater than 3.28 ft in
1. Vitis riparia	5	Yes	FAC	height.
2				Undrophytic
3.				Hydrophytic Vegetation
<b>!</b> .				Present?         Yes         No         X
	5	=Total Cover		

SOIL Sampling Point GR-Y-Up

Profile Desc Depth	cription: (Describe t Matrix	to the de		<b>ıment tl</b> x Featur		tor or co	onfirm the absence of	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0.11	7 FVD 4/2	100						
0-14	7.5YR 4/3	100						
<sup>1</sup> Type: C=Ce	oncentration, D=Depl	etion, RM	I=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil							Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	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 Hi	stic (A3)		Thin Dark Surf	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	811) ( <b>LRF</b>	R K, L)	Polyvalu	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Dar	rk Surface (S9) ( <b>LRR K, L</b> )
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su		-			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Sleyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		Redox Depres		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
3Indicators of	f bydrophytic ycgototi	ion and w	estland budralagy mi	ict ho ni	rocent ur	ologo dist	urbed or problematic.	
	Layer (if observed):	ion and w	elianu nyurology mi	ust be bi	eseni, ui	iless dist	urbed of problematic.	
Type:	Layer (ii observed).							
•								
Depth (ii	ncnes):						Hydric Soil Preser	nt? YesNo_X
Remarks:								
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,
version 7.0,	2015 Ellata. (Ilttp://w	www.iiics.	usua.gov/internet/1	JL_DOC	JOIVILINI	0/11103 142	2p2_001290.docx)	



Upland G-R-Y- View facing North



**Upland G-R-Y- View facing South** 

# Package 1C

# SITE PHOTOGRAPHS

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

Project/Site: CHPE- Package 1C- Route 4 Laydown Area	City/County: Whitehall/ Washington Sampling Date: 2/16/2023						
Applicant/Owner: CHPE	State: NY Sampling Point: GP2-YA-Wet						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Whitehall						
• , ,	Local relief (concave, convex, none): Convex Slope (%):						
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43° 28' 44.6"	Long: -73° 25' 49.5" Datum:						
Soil Map Unit Name: Vergennes silty clay loam	NWI classification: PEM						
Are climatic / hydrologic conditions on the site typical for this time of y	<del></del>						
Are Vegetation, Soil, or Hydrologysignifican	<del></del>						
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.						
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 repo	ort.)						
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	d Leaves (B9) X Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna	B13) Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits							
Water Marks (B1) Hydrogen Sul							
Sediment Deposits (B2) Oxidized Rhiz	cospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	duced Iron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Recent Iron R	duction in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Su	rface (C7) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain	n in Remarks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes X No Depth (inche	es):3						
Water Table Present? Yes No X Depth (inche	es):						
Saturation Present? Yes X No Depth (inches	es): 0 Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:						
Two drainage channels within a mowed field							
Remarks:							

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	5	Yes	FAC	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Typha angustifolia	20	Yes	OBL	FACW species x 2 =
2. Phalaris arundinacea	20	Yes	FACW	FAC species x 3 =
3. Scirpus atrovirens	10	No	OBL	FACU species x 4 =
4. Scirpus cyperinus	10	No	OBL	UPL species x 5 =
5. Lythrum salicaria	15	Yes	OBL	Column Totals: (A)(B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%
1.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 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				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
		=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
				Height.
				Hydrophytic
				Vegetation Present? Yes X No
4.		=Total Cover		Present?
Remarks: (Include photo numbers here or on a sepa		- I Olai Covei		
Tremarks. (include prioto numbers here or on a sepa	rate sneet.)			

Sampling Point: GP2-YA-Wet

SOIL Sampling Point: GP2-YA-Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-5	10YR 3/2	97	10YR 4/6	3	С	M	Loamy/Clayey	Prominent redox concentrations		
5-14	10YR 4/2	95	10YR 4/6	5	<u> </u>	M	Loamy/Clayey	Prominent redox concentrations		
	Concentration, D=Dep	letion, RI	M=Reduced Matrix, CS	S=Cover	ed or Coa	ated Sand		cation: PL=Pore Lining, M=Matrix.		
-	oil Indicators:			۰.	(00) (1.0			r Problematic Hydric Soils <sup>3</sup> :		
	sol (A1)		Polyvalue Below	Surface	(S8) (LR	KK,		ck (A10) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		MLRA 149B) Thin Dark Surface	o (SO) (I	DDD M	II DA 140		airie Redox (A16) (LRR K, L, R)		
	Histic (A3) ogen Sulfide (A4)		High Chroma Sar					cky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) e Below Surface (S8) ( <b>LRR K, L</b> )		
	fied Layers (A5)		Loamy Mucky Mi					k Surface (S9) (LRR K, L)		
	eted Below Dark Surfac	e (A11)	Loamy Gleyed M	-		<b> \_</b> )		ganese Masses (F12) (LRR K, L, R)		
	Dark Surface (A12)	· (· · · · )	X Depleted Matrix (		-,			Piedmont Floodplain Soils (F19) (MLRA 149B)		
	y Mucky Mineral (S1)		Redox Dark Surfa				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	y Gleyed Matrix (S4)		Depleted Dark Su				Red Parent Material (F21)			
Sand	y Redox (S5)		Redox Depressio	ns (F8)			Very Shallow Dark Surface (TF12)			
Stripp	oed Matrix (S6)		Marl (F10) ( <b>LRR</b>	<b>K</b> , <b>L</b> )			Other (Ex	xplain in Remarks)		
Dark	Surface (S7)									
2										
	of hydrophytic vegeta		vetland hydrology mus	t be pre	sent, unle	ess distur	bed or problematic. T			
	e Layer (if observed):									
Type: _										
Depth (i	inches):						Hydric Soil Pre	esent? Yes X No		
Remarks:										
	form is revised from No 0 March 2013 Errata. (ł							CS Field Indicators of Hydric Soils		
version 7.	o March 2013 Enata. (1	ittp://www	v.nics.usua.gov/interni	en ol_	DOCOMI	_111 1 3/1110	s 142p2_051295.uc	(CA)		



Wetland GP2-YA-Wet



Wetland GP2-YA-Wet- Soils

**Supplemental Package 1C** 

**SITE PHOTOGRAPHS** 

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

**VEGETATION** – Use scientific names of plants. Sampling Point: GP2-YA-Up Absolute Dominant Indicator 30' ) Tree Stratum (Plot size: % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: Total % Cover of: =Total Cover Sapling/Shrub Stratum (Plot size: 15' ) \_\_\_\_ x 1 = OBL species 1. FACW species \_\_\_\_\_ x 2 = \_\_\_\_ x 3 = 2. FAC species FACU species x 4 = 4. UPL species x 5 = 5. Column Totals: (A) (B) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5' ) 2 - Dominance Test is >50% Poa pratensis 50 Yes **FACU** 3 - Prevalence Index is ≤3.01 1 2. Trifolium pratense 15 No **FACU** 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) 10 3. Lotus corniculatus No **FACU** UPL 10 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 4 No Daucus carota 10 No **FACW** 5. Phalaris arundinacea <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 diameter 9. 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. Herb - All herbaceous (non-woody) plants, regardless 95 =Total Cover of size, and woody plants less than 3.28 ft tall.

=Total Cover

Woody Vine Stratum (Plot size: \_\_\_\_\_15' )

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

1.

3.

Woody vines - All woody vines greater than 3.28 ft in

Yes No X

height.

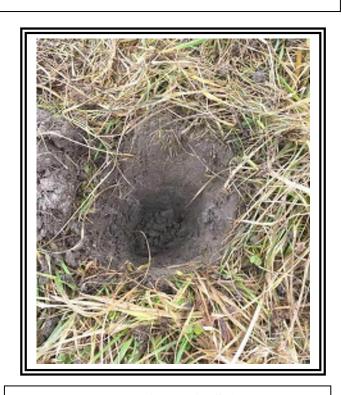
Hydrophytic

Vegetation Present? SOIL Sampling Point: GP2-YA-Up

	• •	to the de	-			or or con	firm the absence of indic	cators.)		
Depth	Matrix			Feature						
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-12	7.5YR 3/3	100					Loamy/Clayey			
								_		
			_							
1 <sub>Type:</sub> C-	Concentration, D=Dep	lotion DA	A-Paduaad Matrix, Ct		ad or Cor	tod Sand	Crains <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.		
		netion, Riv	/i-Reduced Matrix, Co	S-Cover	ed or Coa	ileu Sanu				
-	il Indicators:				(00) (I =			lematic Hydric Soils <sup>3</sup> :		
	sol (A1)		Polyvalue Below	Surface	(S8) ( <b>LR</b>	RR,		0) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		MLRA 149B)					edox (A16) ( <b>LRR K, L, R</b> )		
	Histic (A3)		Thin Dark Surfac				B)5 cm Mucky Pea	at or Peat (S3) ( <b>LRR K, L, R</b> )		
Hydro	gen Sulfide (A4)		High Chroma Sa	nds (S1	1) (LRR K	(, L)	Polyvalue Below	v Surface (S8) ( <b>LRR K, L</b> )		
Stratif	ied Layers (A5)		Loamy Mucky M	ineral (F	1) ( <b>LRR k</b>	(, L)	Thin Dark Surfa	ce (S9) ( <b>LRR K, L</b> )		
Deple	ted Below Dark Surfac	e (A11)	Loamy Gleyed M	latrix (F2	2)		Iron-Manganese	e Masses (F12) ( <b>LRR K, L, R</b> )		
Thick	Dark Surface (A12)		Depleted Matrix	(F3)			Piedmont Flood	plain Soils (F19) ( <b>MLRA 149B</b> )		
—— Sandy	/ Mucky Mineral (S1)		Redox Dark Surf	ace (F6)	)		Mesic Spodic (T	(MLRA 144A, 145, 149B)		
	/ Gleyed Matrix (S4)		 Depleted Dark S				Red Parent Mat	· ·		
	Redox (S5)		Redox Depression		,		Very Shallow Dark Surface (TF12)			
	ed Matrix (S6)		 Marl (F10) ( <b>LRR</b>				Other (Explain in Remarks)			
	Surface (S7)			, -,						
— Bank (	Suridos (G7)									
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
			veliand hydrology mus	st be pre	Sent, unit	ss distuit	T			
	e Layer (if observed):	i								
Type: _										
Depth (ii	nches):						Hydric Soil Present?	Yes No _X_		
Remarks:							!			
	form is revised from No	orthcentra	I and Northeast Region	nal Sup	plement \	ersion 2.	0 to reflect the NRCS Fiel	d Indicators of Hydric Soils		
							s142p2_051293.docx)	,		



**Upland GP2-YA-Up** 



**Upland GP2-YA- Soils** 

**Supplemental Package 1C** 

SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21					
Applicant/Owner: TDI	State: NY Sampling Point: WET CIII-2					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
	relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR R Lat: 43-28-39.41N	Long: 73-25-47.11W Datum: WGS 84					
Soil Map Unit Name: KbA - Kingsbury silty clay	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						
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: Near Flag CIII-2					
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: 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)  X 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)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
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):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Remarks:						

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Salix alba	5	Yes	FACW	
2. Ulmus americana	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
3.				Total Number of Deminent
4.				Total Number of Dominant Species Across All Strata:  6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 30 x 1 = 30
1. Cornus sericea	5	Yes	FACW	FACW species 75 x 2 = 150
2. Salix alba	5	Yes	FACW	FAC species 0 x 3 = 0
3.				FACU species10 x 4 =40
4				UPL species 0 x 5 = 0
5.		·		Column Totals: 115 (A) 220 (B)
6.				Prevalence Index = B/A = 1.91
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Phalaris arundinacea	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	25	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Symphyotrichum ericoides	10	No	FACU	data in Remarks or on a separate sheet)
Solidago gigantea	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Carex bebbii	5	No	OBL	<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 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				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet )			
include photo humbers here of on a separa	ate sneet.)			

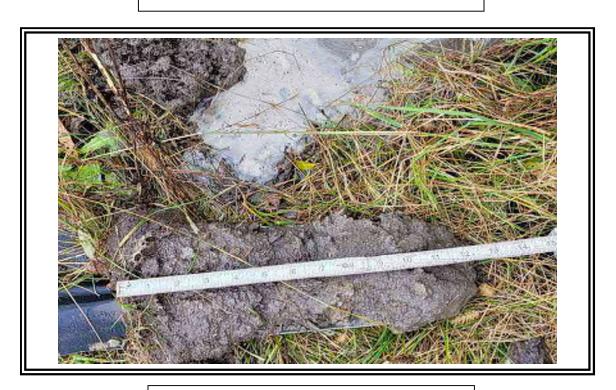
Sampling Point: WET CIII-2

SOIL Sampling Point: WET CIII-2

	ription: (Describe t	o the dep				tor or co	onfirm the absence of i	ndicators.)	
Depth	Matrix			x Feature		. 2	<b>-</b> .	5	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 3/1	65	10YR 5/1	5	<u> </u>	<u>М</u> М	Loamy/Clayey	Faint redox concentrations	
			10YR 5/3	20	<u> </u>			Distinct redox concentrations	
4.40	0.57/ 4/4	75	10YR 4/4	10	<u> </u>	PL_	Maralan I a a ma /Olav	Distinct redox concentrations	
4-16	2.5Y 4/1	75	10YR 4/3	10	<u>C</u>	<u>M</u>	Mucky Loam/Clay	Distinct redox concentrations	
			10YR 5/2	15	<u>C</u>	<u>M</u>		Faint redox concentrations	
	-								
					·				
								_	
1- 0.0							2		
Hydric Soil I		etion, RM	=Reduced Matrix, MS	<i>3</i> =Maske	ed Sand	Grains.		=Pore Lining, M=Matrix.  r Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov	w Surfac	ce (S8) (L	RR R.		ck (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B)		00 (00) (1	-1111 11,		airie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa		(LRR R,	MLRA 1		cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydroger	n Sulfide (A4)		High Chroma S	ands (S	11) (LRF	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky N	√lineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark	Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F	<del>-</del> 2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		X Depleted Matrix				Piedmont Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		X Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)		
	edox (S5) Matrix (S6)		X Redox Depress Marl (F10) (LRI		o)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)		
	face (S7)			, -,					
	,								
<sup>3</sup> Indicators of	hydrophytic vegetati	on and we	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present	? Yes X No	
Remarks:							_		



Wetland CIII-2 View facing north



**Wetland CIII-2 Soils** 

# Package 1C

# SITE PHOTOGRAPHS

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

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CIII-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 43-28-39.02N	Long: 73-25-46.99W Datum: WGS 84
Soil Map Unit Name: KbA - Kingsbury silty clay	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vogetation Soil or Hydrology significantly disturb	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X_	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Successional Old Field.	
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 (E	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	• • • • • • • • • • • • • • • • • • • •
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Curfoxa (C7)	
Iron Deposits (B5) ——Thin Muck Surface (C7) ——Thin Muck Surface (C7) ——The Muck Surface (C7) ——The Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):	·
(includes capillary fringe)	:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections) if available:
Describe Necorded Data (stream gauge, montesting new, action process, p.e.	чина поросното, в ачанало.
6 (.	
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/E
. <u></u> .				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species 20 x 3 = 60
				FACU species 20 x 4 = 80
				UPL species60 x 5 =300
				Column Totals: 100 (A) 440 (E
				Prevalence Index = B/A = 4.40
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Daucus carota	50	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Setaria pumila	20	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporti
Plantago lanceolata	20	Yes	FACU	data in Remarks or on a separate sheet)
Rubia peregrina	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
·				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diamet
				at breast height (DBH), regardless of height.
).				Sapling/shrub – Woody plants less than 3 in. DBH
I				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
				height.
				1
				Hydrophytic Vegetation
				Present?
·				

SOIL Sampling Point: UPL CIII-2

		o the de				or or co	nfirm the absence of i	indicators.)	
Depth	Matrix			x Feature		2	T. 4	D. v. J.	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 2/1	100					Loamy/Clayey		
4-16	2.5Y 5/1	90	10YR 5/6	5	С	M	Sandy	Prominent redox concentrations	
			10YR 3/4	5	С	M	·	Prominent redox concentrations	
								-	
	-							_	
								_	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion. RM	=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PI	_=Pore Lining, M=Matrix.	
Hydric Soil I		oo,	. toudood matin, m		04 04.14	0.0		or Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Belov	w Surfac	ce (S8) ( <b>L</b>	.RR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	pipedon (A2)		MLRA 149B)	1			Coast Pr	airie Redox (A16) (LRR K, L, R)	
Black Hi			Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)		
	Layers (A5)	(0.4.4)	Loamy Mucky N			R K, L)	Thin Dark Surface (S9) (LRR K, L)		
	l Below Dark Surface ark Surface (A12)	(A11)	Loamy Gleyed Depleted Matrix		-2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	lucky Mineral (S1)		Redox Dark Su		6)		Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)		
X Sandy R			Redox Depress				Very Shallow Dark Surface (F22)		
Stripped	Matrix (S6)		Marl (F10) (LRI	R K, L)			Other (Explain in Remarks)		
Dark Su	rface (S7)								
2									
	f hydrophytic vegetati -ayer (if observed):	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	rbed or problematic.		
Type:	_ayer (if observed):								
Depth (ir	oches).						Hydric Soil Presen	t? Yes X No	
							Tryunc con r resen	<u> </u>	
Remarks:									



**Upland CIII-2 View facing east** 



**Upland CIII-2 Soils** 

# Package 1C

## **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CJJJ-2
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 43-28-37.13N	Long: _73-25-48.48W
Soil Map Unit Name: OP - Orthents and Psamments	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 disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	npling 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: Near Flag CJJJ-2
Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: 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 (	C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  X Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed 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)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	ks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	: <u> </u>
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Tomano.	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
Fraxinus pennsylvanica	2	No	FACW					
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)				
3.								
				Total Number of Dominant Species Across All Strata: 2 (B)				
5.								
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.				Prevalence Index worksheet:				
	2	=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 100 x 1 = 100				
1. Cornus sericea	35	Yes	FACW	FACW species 37 x 2 = 74				
2. Cornus racemosa	5	No	FAC	FAC species 5 x 3 = 15				
3.				FACU species 0 x 4 = 0				
4.				UPL species 0 x 5 = 0				
5.				Column Totals: 142 (A) 189 (B)				
6.				Prevalence Index = B/A = 1.33				
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. Typha latifolia	95	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 supporting				
3.				data in Remarks or on a separate sheet)				
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must 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				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:)				Woody vines – All woody vines greater than 3.28 ft in				
1				height.				
2				Understudie				
3				Hydrophytic Vegetation				
4				Present? Yes X No No				
		=Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)								

Sampling Point: WET CJJJ-2

**SOIL** Sampling Point: WET CJJJ-2

Depth	Matrix	o the dep		x Featur		tor or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-3	10YR 2/1	80	10YR 5/3	20	С	М	Loamy/Clayey	Distinct redox concentrations	
3-10	N 4/	78	10YR 2/1	2	С	М	Loamy/Clayey	Distinct redox concentrations	
			10YR 5/4	5	С	М		Prominent redox concentrations	
			10YR 4/6	15	С	PL		Prominent redox concentrations	
10-16	N 4/	70	10YR 5/3	20	С	M	Loamy/Clayey	Prominent redox concentrations	
			10YR 4/4	10		M		Prominent redox concentrations	
								T TOTALIONE TO GOAR GOTTO CHILDREN	
¹Type: C=Co	oncentration, D=Depl	etion, RM:	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I								or Problematic Hydric Soils <sup>3</sup> :	
Histosol	• ,		Polyvalue Belo		ce (S8) ( <b>I</b>	LRR R,		uck (A10) (LRR K, L, MLRA 149B)	
Black His	stic (A3)		MLRA 149B) Thin Dark Surfa	,	(I RR R	MI RA 1		rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S					ie Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky N					rk Surface (S9) ( <b>LRR K, L</b> )	
	Below Dark Surface	(A11)	X Loamy Gleyed			, ,		nganese Masses (F12) (LRR K, L, R)	
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7)							Red Parent Material (F21)		
Sandy Redox (S5)  Redox Depressions (F8)						Very Shallow Dark Surface (F22)			
Stripped Matrix (S6) Marl (F10) (LRR K, L)  Dark Surface (S7)					Other (Explain in Remarks)				
Dark Sur	Tace (57)								
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
	ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No	
Remarks:									

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

Project/Site: CHPE	City/County: Whitehall / Washington Sampling Date: 11/15/21					
Applicant/Owner: TDI	State: NY Sampling Point: WETCJJ-9					
Investigator(s): J. Greaves, C. Scrivner	Section, Township, Range:					
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Convex Slope %: 2					
Subregion (LRR or MLRA): LRR R Lat: 43-28-36.18N	Long: <u>73-25-46.79W</u> Datum: <u>WGS 84</u>					
Soil Map Unit Name: OP - Orthents and Psamments	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 disturb						
Are Vegetation , Soil , or Hydrology naturally problems						
	npling 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: Near Flag CJJJ-9					
Palustrine Emergent Marsh - Common reed marsh. Edinger classification: Common Reed 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)					
Surface Water (A1) Water-Stained Leaves (I						
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 (CR)						
Drift Deposits (B3) Presence of Reduced Iro	· /					
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)						
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
	A FACTIVEURAL TEST (DS)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       X       No       Depth (inches):						
(includes capillary fringe)	Wedand Hydrology Fresent: Tes 🗡 No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	L avious inspections) if available:					
20001100 1100011000 20110 (c.1.0a.i. gauge,e.ii g, 22.1 p. 1.2	winds inspectioners, in available.					
Remarks:						

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

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:					
2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:(A)					
3. 4.				Total Number of Dominant Species Across All Strata:(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 0 x 1 = 0					
1. Cornus amomum	5	Yes	FACW	FACW species 105 x 2 = 210					
2				FAC species 0 x 3 = 0					
3.				FACU species 3 x 4 = 12					
4				UPL species 0 x 5 = 0					
5				Column Totals: 108 (A) 222 (B)					
6.				Prevalence Index = B/A = 2.06					
7.				Hydrophytic Vegetation Indicators:					
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation					
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%					
1. Phragmites australis	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>					
2. 3.				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		<del></del>		<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		<del>-</del>		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')		_		Weedy vines All woody vines greater than 2.29 ft in					
1. Vitis aestivalis	3	No	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.					
2.									
3.				Hydrophytic Vegetation					
4.				Present? Yes X No					
	3	=Total Cover							
Remarks: (Include photo numbers here or on a separa	ate sheet.)								

Sampling Point: WET CJJJ-9

SOIL Sampling Point: WET CJJJ-9

	ription: (Describe to	o the dep				or or co	onfirm the absence of in	ndicators.)			
Depth	Matrix			Feature		2					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-6	10YR 3/1	96	10YR 4/2	2	<u> </u>	<u>M</u>	Loamy/Clayey	Faint redox concentrations			
			10YR 5/6	2	<u>C</u>	<u>Pl</u>		Prominent redox concentrations			
6-16	2.5Y 4/1	60	10YR 4/6	20	<u>C</u>	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations			
			10YR 5/4	20	С	M		Prominent redox concentrations			
		,									
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	3=Maske	ed Sand	Grains.		=Pore Lining, M=Matrix.			
Hydric Soil I			Daharahaa Dalaa	0	- (CO) (I	DD D		Problematic Hydric Soils <sup>3</sup> :			
Histosol			Polyvalue Below MLRA 149B)		e (58) ( <b>L</b>	.KK K,		k (A10) (LRR K, L, MLRA 149B)			
Black His	oipedon (A2)		Thin Dark Surfa		(I RR R	MI RA '		iirie Redox (A16) ( <b>LRR K, L, R</b> ) ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )			
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)			
	Layers (A5)		Loamy Mucky N					Surface (S9) (LRR K, L)			
	Below Dark Surface	(A11)	Loamy Gleyed I			, = /		ganese Masses (F12) (LRR K, L, R)			
	rk Surface (A12)	(,,,,	X Depleted Matrix								
	lucky Mineral (S1)		X Redox Dark Sur		<del></del>						
	leyed Matrix (S4)		Depleted Dark Surface (F7)					nt Material (F21)			
	edox (S5)		Redox Depressions (F8)				Very Shallow Dark Surface (F22)				
	Matrix (S6)		Marl (F10) ( <b>LRR K, L</b> )				Other (Explain in Remarks)				
	face (S7)			, =,				,			
	hydrophytic vegetation	on and w	etland hydrology mus	t be pre	sent, unl	ess distu	rbed or problematic.				
Type:	Layer (II Observed).										
Depth (ir	nches):						Hydric Soil Present	? Yes X No			
Remarks:	<u> </u>						<u> </u>				
i											
								,			



Wetland CJJJ-9 View facing northwest



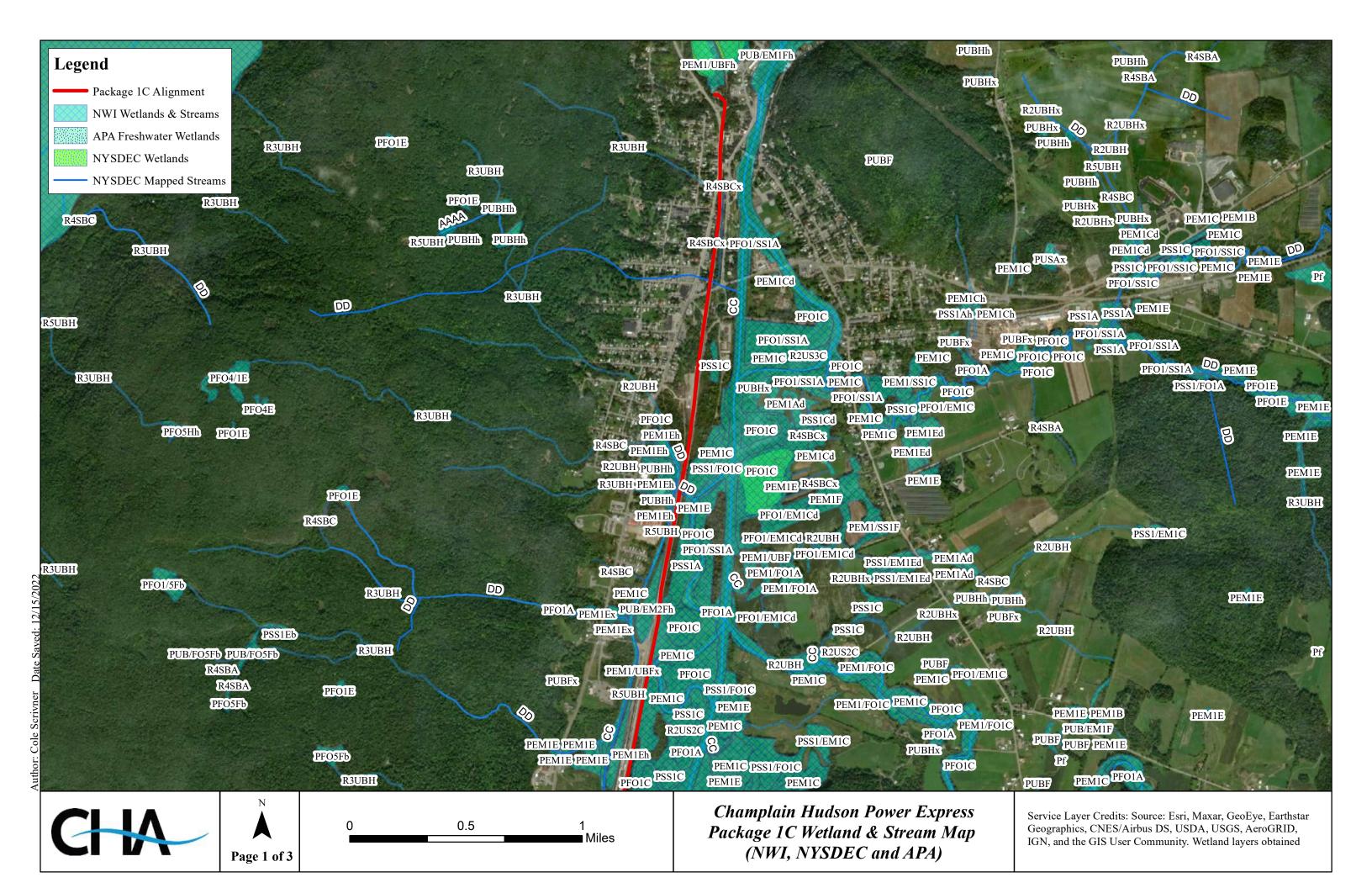
Wetland CJJJ-9 Soils

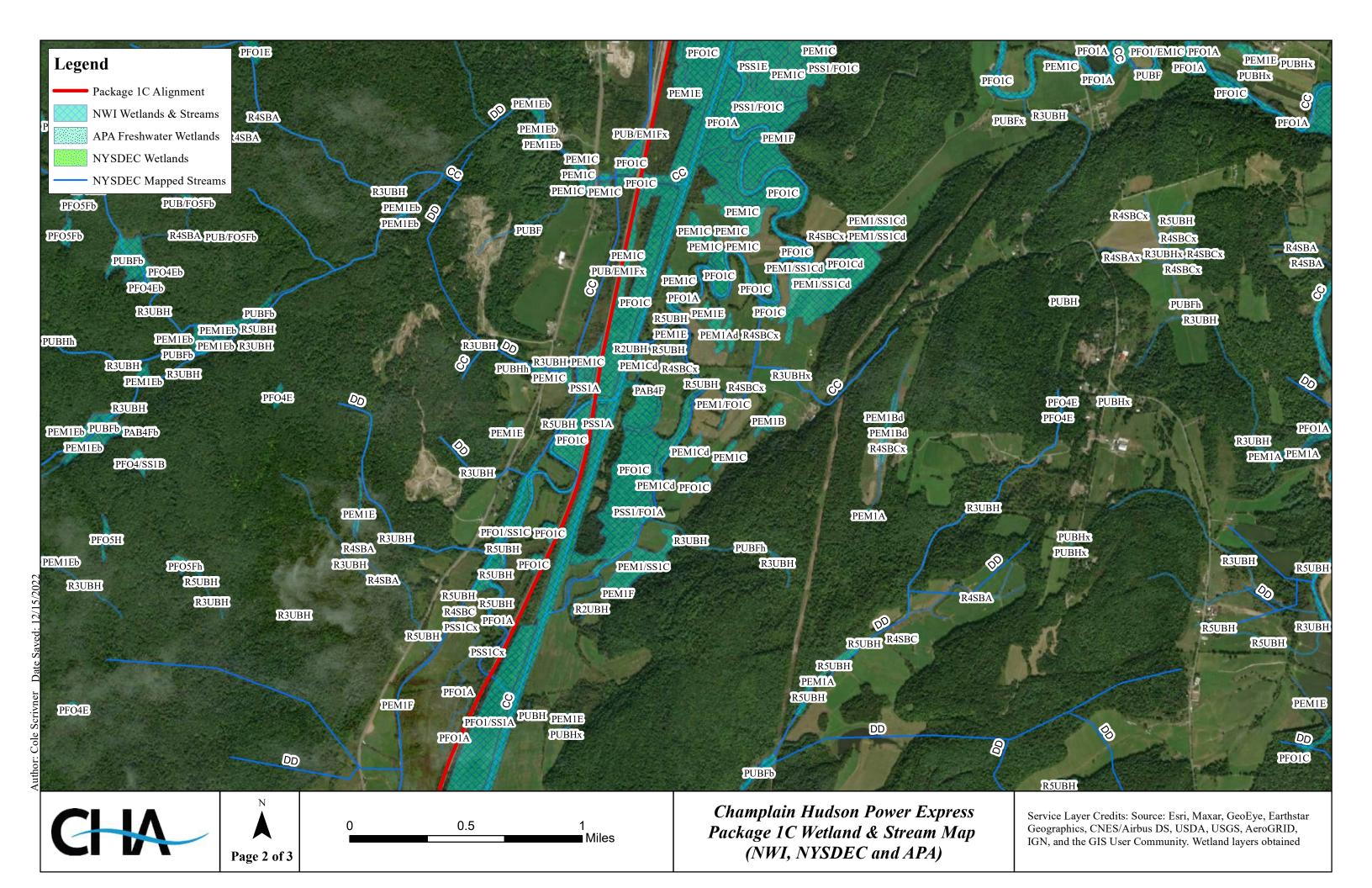
Segment 3 - Package 2

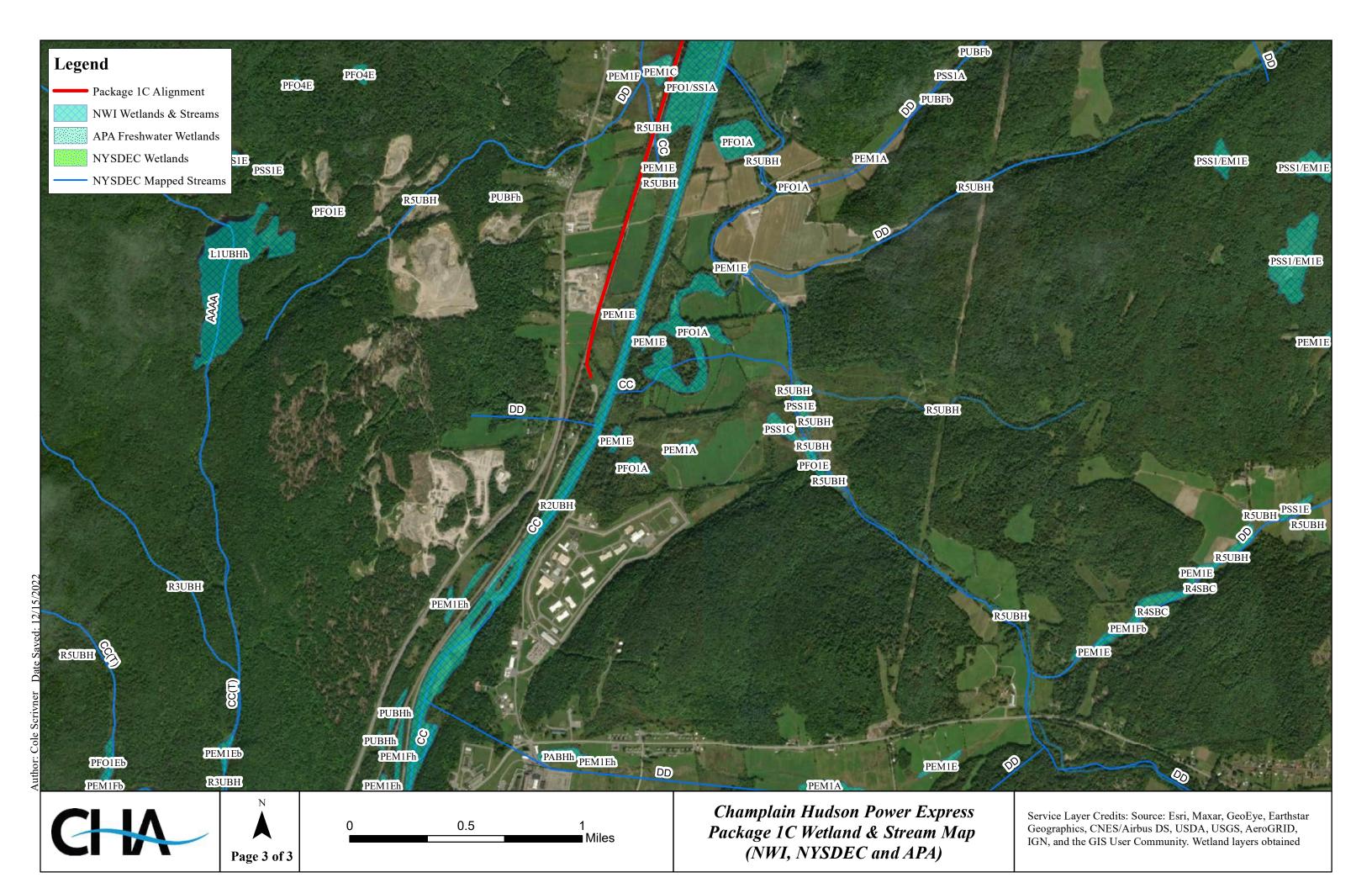
#### **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

# ATTACHMENT 2 NWI & NYSDEC WETLAND & STREAM MAPS







# ATTACHMENT 3 NRCS SOIL MAPS

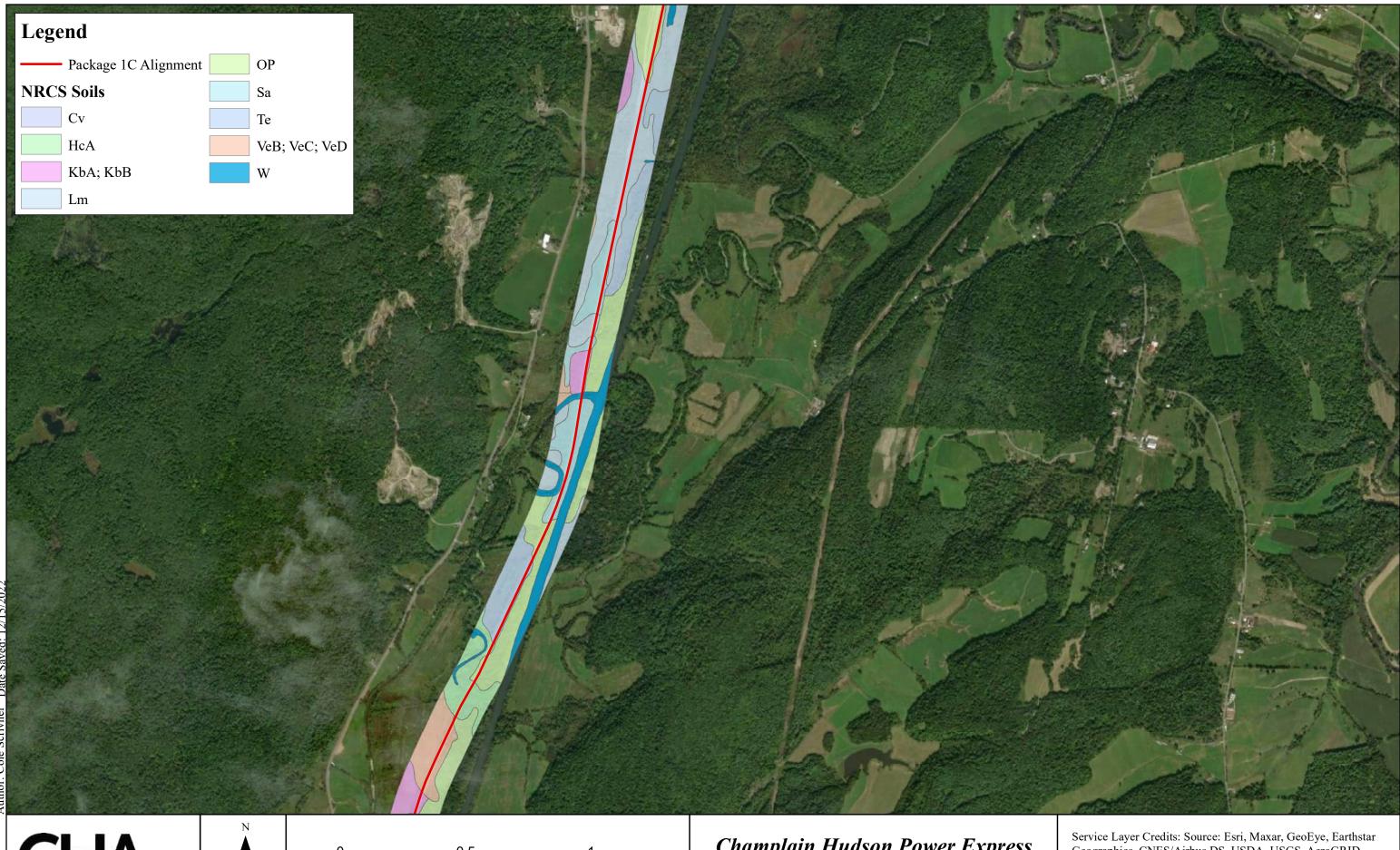


CHA



0 0.5 1 Miles

Champlain Hudson Power Express Package 1C NRCS Soil Map Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Soil data was obtained from the NRCS.

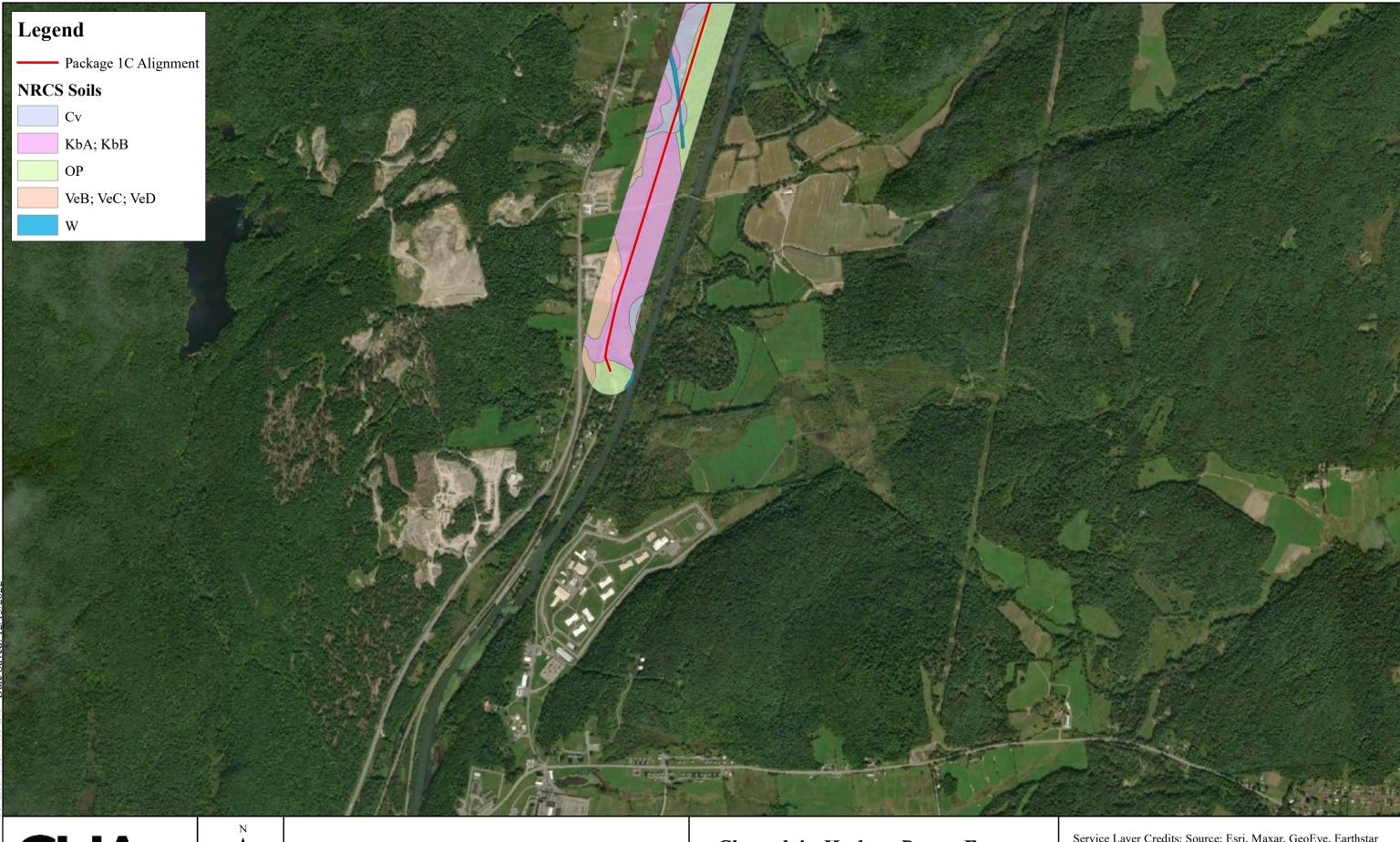


CHA



0 0.5 1 Miles

Champlain Hudson Power Express Package 1C NRCS Soil Map Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Soil data was obtained from the NRCS.



CHA



0 0.5 1 Miles

Champlain Hudson Power Express Package 1C NRCS Soil Map Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Soil data was obtained from the NRCS.

# ATTACHMENT 4 TABLES

			Table 4-1			
Approximate Station & Dwg. No.	Wetland ID	Summa Cowardin Classification <sup>2</sup>	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)
			CP Rail			
15070+00 C-403 & C-211	P1C-B2	PSS	Unnamed Tributary to Champlain Canal	4,453 sf	USACE	43.539, -73.407
15078+00 C-403	G-R-S	PEM	Unnamed Tributary to Champlain Canal	112,089 sf	USACE	43.535, -73.408
15093+00 to	G-R-X/	PEM	Unnamed Tributaries to	388,360 sf		
15280+25 C-404 to	G-R-X-1/	PSS	Champlain Canal (C-R-	178,858 sf	USACE	43.514,
C-410, C-213 & C-214	1C-C/ P1C-A	PFO	S3, C-R-S2, C-R-X-S1 and G-R-S-M)	212,324 sf	00/10-	-73.415
15142+00	0.011	PEM	Unnamed Tributary to	133,222 sf	1104.05	43.516, -73.412
C-405	Ğ-R-U	PFO	Champlain Canal (G-R-S-K)	71,764 sf	USACE	
15165+00 C-212	P1C-A2	PEM	Unnamed Tributary to Champlain Canal	3,377 sf	USACE	43.508, -73.419
15186+50 C-407	G-R-V	PFO	Champlain Canal	5,948 sf	USACE	43.508, -73.415
15195+00 C-213	1C-A	PEM	Unnamed Tributary to Champlain Canal	0	USACE	<u>43.508,</u> <u>-73.419</u>
15192+00 C-213	1C-B	PEM	Old Champlain Canal	0	USACE	43.507, -73.419
15195+00 C-213	1C-D	PUB	Unnamed Tributary to Champlain Canal	0	USACE	43.507, -73.419
15198+00	G-R-W	PSS	Champlain Canal	5,499 sf	USACE	43.504,
C-407	G-IX-W	PFO	Champiain Canai	4,689 sf	USACE	-73.416
15241+00 C-214	P1C-D	PEM	Unnamed Tributary to Champlain Canal	2,188 sf	USACE	43.495, -73.428
15241+00 C-214	P1C-C/E	PEM	Old Champlain Canal	1,453 sf	USACE	43.507, -73.427
15241+00 C-214	P1C-B	PEM	Old Champlain Canal	1,731 sf	USACE	43.495, -73.426
15282+00 C-410	G-R-Y/ GP2-YA	PEM	Unnamed Tributary to Champlain Canal (G-R-S-N)	48,392 sf	USACE	43.481, -73.429

Table 4-1 Summary of Wetlands Within the Project Corridor <sup>1</sup>								
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification <sup>2</sup>	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)		
15304+00 C-411	CIII	PEM	Appears isolated but general drainage to Champlain Canal	1,178 sf	USACE	43.478, - 73.430		
15306+00 C-411	CJJJ	PEM	Unnamed Tributary to Champlain Canal	9,408 sf	USACE	43.477, -73.430		

<sup>&</sup>lt;sup>1</sup> Wetlands identified include both wetlands that are directly crossed by the overland transmission cable corridor as well as wetlands that are adjacent to the Project Corridor that were delineated during field surveys.

<sup>&</sup>lt;sup>2</sup>Cowardin et al. 1979 categories include: Palustrine Emergent (PEM), Palustrine Forested (PFO), Palustrine Scrub-Shrub (PSS), and palustrine unconsolidated bottom (PUB).

	Table 4-2 Summary of Waterbodies within the Project Corridor								
Approximate Station	Waterbody Name	NYSDEC Classification	Waterbody Field ID & NYSDEC Regulation	Flow Status	Substrate	Wid th (ft.) <sup>1</sup>	Depth (ft.) <sup>1</sup>	Length w/in JD Boundary	Coordinates (lat., long.)
				CP Rail					
15105+00 (C-107 to 108)	Unnamed Tributary to Champlain Canal	Unmapped	C-R-S3	Intermittent	Mineral soil	2.5	0.75	94	43.53, -73.409
15121+00 (C-109)	Unnamed Tributary to Champlain Canal	Unmapped	C-R-S2	Perennial	Mineral soil	7	1.5	103	43.525, -73.411
15142+00 (C-110)	Unnamed Tributary to Champlain Canal	Unmapped	C-R-S1/ G-R-S-K	Perennial	Silt over rock	25	5	226	43.52, -73.412
15178+00 (C-112)	Champlain Canal	C/C	G-R-S-L/ C-R-CAN 830-469	Perennial	Silt	40	6	269	43.51, -73.414
15227+00 (C-116)	Tributary to Champlain Canal	C/C	G-R-S-M 830-469	Perennial	Silt	30	4	64	43.498, -73.421
15298+00 (C-120)	Unnamed Tributary to Champlain Canal	Unmapped	G-R-S-N	Intermittent	Silt and small cobble	5	2-3	27	43.479, -73.43

Access Road @ 15196+00 (C-213)	Unnamed Tributary to Champlain Canal	C/C	1C-S1 830-178 & 830-469	Perennial	Cobble/gravel	10	1	905	43.506, -73.419	
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<sup>&</sup>lt;sup>1</sup>Bankfull width and bankfull depth were estimated in the field.

	Table 4-3 Soil Description Summary								
County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class				
Hydric Soils									
Washington	Covington silty clay loam	Cv	0-2	Y	Poorly Drained				
Washington	Limerick silt loam	Lm	0-2	Y	Poorly Drained				
Washington	Saco silt loam	Sa	0-2	Y	Very Poorly Drained				
Washington	Saprists, Aquepts, and Aquents	SB	0-2	Y	Very Poorly Drained				
Non-hydric Soils									
Washington	Hartland very fine sandy loam	HcA	0-2	N	Well Drained				
Washington	Hollis-Charlton association, moderately steep and steep	HLE	15-25	N	Well Drained				
Washington	Kingsbury silty clay	KbA	0-2	N	Somewhat Poorly Drained				
Washington	Kingsbury silty clay	KbB	2-6	N	Somewhat Poorly Drained				
Washington	Orthents and Psamments	OP	0-15	N	Well Drained				
Washington	Teel silt loam	Te	0-2	N	Moderately well drained				
Washington	Vergennes silty clay loam	VeB	2-6	N	Moderately Well Drained				
Washington	Vergennes silty clay loam	VeC	6-12	N	Moderately Well Drained				
Washington	Vergennes silty clay loam	VeD	12-20	N	Moderately Well Drained				

ATTACHMENT 5
WETLANDS AND WATERBODIES DELINEATION MAPPING

#### LEGEND & ABBREVIATIONS

нн	EXIST. FIBER OPTIC LINE HANDHOLE
Р	EXIST. FIBER OPTIC LINE PEDESTAL
ЭН	EXIST. FIBER OPTIC LINE DOGHOUSE
ИH	EXIST. FIBER OPTIC LINE MANHOLE
V	EXIST. FIBER OPTIC LINE VAULT
BP	EXIST. FIBER OPTIC LINE BORE PIT
_В	EXIST. FIBER OPTIC LOCK BOX
<del> </del>	EXIST. GROUND ROD
FIBER MARK	EXIST. FIBER OPTIC MARKER POST
FIBER BOX	EXIST. FIBER OPTIC BOX
00	EXIST. FIBER STORAGE
Ç- <sup>HYD</sup>	EXIST. FIRE HYDRANT
⊗ <sup>w</sup> ∨	EXIST. WATER VALVE
WATER	EXIST. WATER MANHOLE
WATER MARK	EXIST. WATER MARKER
SS)	EXIST. SANITARY SEWER MANHOLE
O VENT	EXIST. SANITARY SEWER VENT
(a)	EXIST. STORM SEWER MANHOLE
OB INIV	EXIST. STORM SEWER CATCH BASIN
< INV.	EXIST. CULVERT INVERT
G	EXIST. GAS MANHOLE
<mark></mark>	EXIST. GAS VALVE
♦ MARK ⇒ VENT	EXIST. GAS MARKER
<u>)</u>	EXIST. GAS PIPELINE VENT
♥ Ø <sup>UP</sup>	EXIST. LIGHT POLE  EXIST. UTILITY POLE
γ ∮ <sup>PP</sup>	EXIST. ELEC. POLE
	EXIST. TRAFFIC LIGHT
Ē	EXIST. ELEC. METER
E)	EXIST. ELEC. MANHOLE
TR	EXIST. ELEC. TRANSFORMER
V	EXIST. ELEC. VAULT
н	EXIST. ELEC. HANDHOLE
Р	EXIST. ELEC. PEDESTAL/BOX
ELEC MARK	EXIST. ELEC. MARKER POST
Ţ	EXIST. ELEC. GUY ANCHOR/WIRE
	EXIST. TELE. RISER/BOX
D	EXIST. TELE. MANHOLE
<del></del>	EXIST. TELE. HANDHOLE
V P	EXIST. TELE. VAULT EXIST. TELE. PEDESTAL
<u>-</u> DH	EXIST. TELE. DOGHOUSE
TELEPHONE  MARK	EXIST. TELE. MARKER POST
	EXIST. TELE. JUNCTION BOX
ТВ	EXIST. TRAFFIC SIGNAL BOX
	EXIST. CELL TOWER
CB	EXIST. CABLE BOX
<b>A</b>	EXISTING MANHOLE UNKNOWN
U	EXISTING UTILITY BOX UNKNOWN
	EXISTING ANTENNA
CAPPED IRON ROD	EXISTING CAPPED IRON ROD
IRON PIPE	EXISTING IRON PIPE
CONCRETE BOUNDARY	EXISTING CONCRETE MONUMENT
⊙ <sup>POST</sup>	EXISTING POST

EXISTING SIGN EXIST. STRUCTURE POST EXIST. STRUCTURE MAILBOX EXIST. GAS LINE EXIST. UNDERGROUND TELE. — — UT — UT — EXIST. FIBER OPTIC — F0 — F0 — EXIST. OVERHEAD TELE. — — ot — — ot — EXIST. UNDERGROUND ELEC. — — UE — — UE — EXIST. OVERHEAD ELEC. — — OE — — OE — EXIST. CULVERT — — st — — st — EXIST. SANITARY SEWER — — ss — — ss — EXIST. STORM SEWER — — st — — st — EXIST. POTABLE WATER LINE — — w — — w — EXIST. FUEL LINE ------ FUEL------EXIST. RAILROAD TRACK ⊗ CERTIFIED ROUTE MP XX CERTIFIED ROUTE PROVIDED BY CHPE KMZ  $\otimes {\it RANDALL PREFERRED \over \it MP XX}$  RANDALL PREFERRED PROVIDED BY CHPE KMZ \_\_\_\_\_ EXIST. CONTOUR, INDEX ~~~<del>~</del> EXIST. CONTOUR, DEPRESSION INDEX ~~~~~ EXIST. CONTOUR, INTERMEDIATE ~~~~~ EXIST. CONTOUR, DEPRESSION INTERMEDIATE  $\times^{139.7}$ EXIST. SPOT ELEVATION EXIST. LANDSCAPE / STORAGE AREA EXIST. NATURAL BOULDER EXIST. NATURAL SHRUB LINE ..... EXIST. NATURAL TREE LINE  $\Diamond$   $\Diamond$   $\circ$ EXIST. NATURAL SINGLE TREE/BUSH EXIST. STRUCTURAL BUILDING EXIST. PAVED DRIVE EXIST. PAVED ROAD EXIST. PAVED SHOULDER EXIST. PAVED SIDEWALK EXIST. GUARDRAIL EXIST. TRAIL \_\_\_ · \_\_\_ · \_\_\_ · \_\_\_ EXIST. FENCE \_\_\_\_\_ X \_\_\_\_ EXIST. WALL EXIST. RETAINING WALL EXIST. RIGHT-OF-WAY EXIST. ABUTTER

### NOTES:

1. LIMIT OF WORK (LOW) - THE BOUNDARY IN WHICH ALL CONSTRUCTION ACTIVITIES, STOCKPILES MATERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING, LANDSCAPING, RESTORATION, AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR. ADDITIONALLY, THE LOW IS THE BOUNDARY FOR ALL POTENTIAL DISTURBANCE DURING CONSTRUCTION. UNLESS OTHERWISE SPECIFIED, WHEN THE LIMIT OF CLEARING AND GRUBBING IS SHOWN ON THE PLANS, IT SHALL ALSO BE THE LOW. THE LOW INCLUDES THE AREA THAT WOULD BE CONSIDERED THE LIMIT OF DISTURBANCE (LOD).

<u> </u>	EXIST. WETLANDS	APP	APPROVED
<b>⊕</b> -xx- <b>#</b>	EXIST. WETLAND FLAG	CL	CENTERLINE
	PEM — PALUSTRINE EMERGENT	CMP	CORRUGATED METAL PIPE
77/7/2	PSS - PALUSTRINE SCRUB-SHRUB	CONC	CONCRETE
	PFO — PALUSTRINE FORESTED	DB	DESIGNED BY
	PUB - PALUSTRINE UNCONSOLIDATED BOTTOM	DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
\(\psi  \psi  \psi	L1 - LACUSTRINE LIMNETIC	DEG	DEGREES
	L2 - LACUSTRINE LITTORAL	DR	DRIVE
	NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA	DZ	DEVIATION ZONE
	GIS HISTORICAL WETLAND BOUNDARY	E	EASTING
	JD BOUNDARY	ELECTRIC	ELECTRIC CABLE
WP	PROP. WETLAND PROTECTION FENCE	ELEV	ELEVATION
FS	PROP. COMPOST FILTER SOCK (OR SILT SOCK)	EXIST	EXISTING
<del>140</del>	PROP. TEMP MAJOR CONTOUR	FIBER	FIBER OPTIC CABLE
	PROP. TEMP MINOR CONTOUR	FT	FEET
LOW	PROP. LIMITS OF WORK/DISTURBANCE	GAS	GAS PIPE
	PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS	Н	HORIZONTAL
	PROP. CONCRETE WASHOUT	HDD	HORIZONTAL DIRECTIONAL DRILLING
	PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE)	HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
	PROP. TEMP REFURBISHED ACCESS ROAD	INV	INVERT ELEVATION
		LOW	LIMITS OF WORK
	PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD	LT	LEFT
	PROP. TEMP TIMBER MATTING OR TEMP GEOTEXTILE FABRIC AND STONE	MAX	MAXIMUM
	PROP. SPLICE LOCATION	MIN	MINIMUM
	PROP. SPLICE VAULT	N	NORTHING
	PROP. LINK BOX HANDHOLE	NO	NUMBER
	PROP. FIBER SPLICE HANDHOLE	NY	NEW YORK
<b>♦</b>	PROP. BORING LOCATION	P#	PACKAGE #
XXXXX+XX	PROP. ALIGNMENT STATIONING	PERM PROP.	PERMANENT PROPOSED
	PROP. ALIGNMENT CENTERLINE		
	PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA	PVC	POLYVINYL CHLORIDE
	PROP. WORK AREAS	PVI R	POINT OF VERTICAL INTERSECTION RADIUS
	TROIL WORK MILENS	RCP	REINFORCED CONCRETE PIPE
	PROP. TEMP EASEMENT	RD	ROAD
	PROP. PERM EASEMENT	REV	REVISION
		ROW	RIGHT-OF-WAY
	PROP. TEMP ACCESS EASEMENT	RT	RIGHT
CP RAIL		RTE	ROUTE
MP XX	CP RAIL MP CALL OUT	SEWER	SANITARY SEWER PIPE
Y		SH	SHEET
I		ST	STREET
		STA	STATION
		STORM	STORM DRAIN PIPE
		TELECOM	TELECOMMUNICATIONS CABLE
		TEMP	TEMPORARY
		TR	THERMAL RESISTIVITY
		TYP	TYPICAL
		V	VERTICAL
		WATER	WATERLINE



(SYM.)



EXISTING REFLECTOR MARKER

EXISTING SYMBOL





IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

					SEGMENT	
0	03/22/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JTM	JPR		
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN RV: LIE	DES

CHAMPLAIN HUDSON POWER EXPRESS (PACKAGE 1C ) WHITEHALL TO FORT ANN EGEND AND ABBREVIATIONS

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

G-004

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

AS NOTED DATE