



**Wetland G-R- View facing Southwest**



**Wetland G-R- View facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-R-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 142 Lat: 43° 35' 27.40"N Long: 73° 26' 15.88"W Datum:   
 Soil Map Unit Name: Rock outcrop/Hollis 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-R-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |
|--|------------------|-------------------|------------------|---|
| 1. <u><i>Tsuga canadensis</i></u>                    | <u>20</u>        | <u>Yes</u>        | <u>FACU</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.0%</u> (A/B)   |
| 2. <u><i>Acer rubrum</i></u>                         | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |   |
| 3. <u><i>Acer saccharum</i></u>                      | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            |   |
| 7. _____   | _____            | _____             | _____            |   |
|  |                  | <u>40</u>         | =Total Cover     | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____   |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |
| 1. <u><i>Hamamelis virginiana</i></u>                | <u>15</u>        | <u>Yes</u>        | <u>FACU</u>      |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
|  |                  | <u>15</u>         | =Total Cover     | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>_____</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |
| 1. <u><i>Polystichum acrostichoides</i></u>          | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            |   |
| 7. _____   | _____            | _____             | _____            |   |
| 8. _____   | _____            | _____             | _____            |   |
| 9. _____   | _____            | _____             | _____            |   |
| 10. _____  | _____            | _____             | _____            |   |
|  |                  | <u>5</u>          | =Total Cover     | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                        |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |   |
| 1. _____   | _____            | _____             | _____            |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
|  |                  | _____             | =Total Cover     | <b>Hydrophytic Vegetation Present?</b> Yes <u>_____</u> No <u>X</u>   |

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

## SOIL

Sampling Point: G-R-Up

[illegible]





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



**Upland G-R- View facing Southeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
Applicant/Owner: CHPE State: NY Sampling Point: G-Q-Wet  
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 142 Lat: 43° 35', 17.41"N Long: 73° 26', 18.50"W Datum: \_\_\_\_\_  
Soil Map Unit Name: Rock Outcrop/Hollis NWI classification: PFO  
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
|---|---------------------------------|--------------|----------|----------------------|--------------|----------|----------------------------|--------------|----------|---|----------------------------|--|--|--|---|--|
| <table style="width: 100%;"><tr><td style="width: 30%;">Hydrophytic Vegetation Present?</td><td style="width: 30%;">Yes <u>X</u></td><td style="width: 30%;">No _____</td></tr><tr><td>Hydric Soil Present?</td><td>Yes <u>X</u></td><td>No _____</td></tr><tr><td>Wetland Hydrology Present?</td><td>Yes <u>X</u></td><td>No _____</td></tr></table> | Hydrophytic Vegetation Present? | Yes <u>X</u> | No _____ | Hydric Soil Present? | Yes <u>X</u> | No _____ | Wetland Hydrology Present? | Yes <u>X</u> | No _____ | <table style="width: 100%;"><tr><td colspan="2"><b>Is the Sampled Area</b></td></tr><tr><td colspan="2"><b>within a Wetland?</b> Yes <u>X</u> No _____</td></tr><tr><td colspan="2">If yes, optional Wetland Site ID: _____</td></tr></table> | <b>Is the Sampled Area</b> |  | <b>within a Wetland?</b> Yes <u>X</u> No _____ |  | If yes, optional Wetland Site ID: _____ |  |
| Hydrophytic Vegetation Present?   | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Hydric Soil Present?  | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Wetland Hydrology Present?  | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| <b>Is the Sampled Area</b>  |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| <b>within a Wetland?</b> Yes <u>X</u> No _____  |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| If yes, optional Wetland Site ID: _____   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Remarks: (Explain alternative procedures here or in a separate report.)   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |

### HYDROLOGY

|   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
|---|--|-----------------------------|------------------------------------|-----------------------------|---------------------------|-----------------------|---------------------------|---------------------------|----------------------------------|------------------------------|--|---------------------------|-------------------------------------|---|--|--------------------------|------------------------------|---|----------------------------------|---|--|---|--------------------------------|----------------------------------|-----------------------------|-----------------------------------|-----------------------------|---|--|--------------------------------|-----------------------------|------------------------------------|-----------------------------|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><table style="width: 100%;"><tr><td><u>X</u> Surface Water (A1)</td><td><u>X</u> Water-Stained Leaves (B9)</td></tr><tr><td>_____ High Water Table (A2)</td><td>_____ Aquatic Fauna (B13)</td></tr><tr><td>_____ Saturation (A3)</td><td>_____ Marl Deposits (B15)</td></tr><tr><td><u>X</u> Water Marks (B1)</td><td>_____ Hydrogen Sulfide Odor (C1)</td></tr><tr><td>_____ Sediment Deposits (B2)</td><td>_____ Oxidized Rhizospheres on Living Roots (C3)</td></tr><tr><td>_____ Drift Deposits (B3)</td><td>_____ Presence of Reduced Iron (C4)</td></tr><tr><td>_____ Algal Mat or Crust (B4)</td><td>_____ Recent Iron Reduction in Tilled Soils (C6)</td></tr><tr><td>_____ Iron Deposits (B5)</td><td>_____ Thin Muck Surface (C7)</td></tr><tr><td>_____ Inundation Visible on Aerial Imagery (B7)</td><td>_____ Other (Explain in Remarks)</td></tr><tr><td>_____ Sparsely Vegetated Concave Surface (B8)</td><td></td></tr></table> |  | <u>X</u> Surface Water (A1) | <u>X</u> Water-Stained Leaves (B9) | _____ High Water Table (A2) | _____ Aquatic Fauna (B13) | _____ Saturation (A3) | _____ Marl Deposits (B15) | <u>X</u> Water Marks (B1) | _____ Hydrogen Sulfide Odor (C1) | _____ Sediment Deposits (B2) | _____ Oxidized Rhizospheres on Living Roots (C3) | _____ Drift Deposits (B3) | _____ Presence of Reduced Iron (C4) | _____ Algal Mat or Crust (B4)                           | _____ Recent Iron Reduction in Tilled Soils (C6) | _____ Iron Deposits (B5) | _____ Thin Muck Surface (C7) | _____ Inundation Visible on Aerial Imagery (B7) | _____ Other (Explain in Remarks) | _____ Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><table style="width: 100%;"><tr><td>_____ Surface Soil Cracks (B6)</td></tr><tr><td><u>X</u> Drainage Patterns (B10)</td></tr><tr><td>_____ Moss Trim Lines (B16)</td></tr><tr><td>_____ Dry-Season Water Table (C2)</td></tr><tr><td>_____ Crayfish Burrows (C8)</td></tr><tr><td>_____ Saturation Visible on Aerial Imagery (C9)</td></tr><tr><td><u>X</u> Stunted or Stressed Plants (D1)</td></tr><tr><td>_____ Geomorphic Position (D2)</td></tr><tr><td>_____ Shallow Aquitard (D3)</td></tr><tr><td>_____ Microtopographic Relief (D4)</td></tr><tr><td>_____ FAC-Neutral Test (D5)</td></tr></table> | _____ Surface Soil Cracks (B6) | <u>X</u> Drainage Patterns (B10) | _____ Moss Trim Lines (B16) | _____ Dry-Season Water Table (C2) | _____ Crayfish Burrows (C8) | _____ Saturation Visible on Aerial Imagery (C9) | <u>X</u> Stunted or Stressed Plants (D1) | _____ Geomorphic Position (D2) | _____ Shallow Aquitard (D3) | _____ Microtopographic Relief (D4) | _____ FAC-Neutral Test (D5) |
| <u>X</u> Surface Water (A1)   | <u>X</u> Water-Stained Leaves (B9)               |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ High Water Table (A2)   | _____ Aquatic Fauna (B13)                        |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Saturation (A3)   | _____ Marl Deposits (B15)                        |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| <u>X</u> Water Marks (B1)   | _____ Hydrogen Sulfide Odor (C1)                 |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Sediment Deposits (B2)  | _____ Oxidized Rhizospheres on Living Roots (C3) |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Drift Deposits (B3)   | _____ Presence of Reduced Iron (C4)              |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Algal Mat or Crust (B4)   | _____ Recent Iron Reduction in Tilled Soils (C6) |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Iron Deposits (B5)  | _____ Thin Muck Surface (C7)                     |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Inundation Visible on Aerial Imagery (B7)   | _____ Other (Explain in Remarks)                 |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Sparsely Vegetated Concave Surface (B8)   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Surface Soil Cracks (B6)  |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| <u>X</u> Drainage Patterns (B10)  |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Moss Trim Lines (B16)   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Dry-Season Water Table (C2)   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Crayfish Burrows (C8)   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Saturation Visible on Aerial Imagery (C9)   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| <u>X</u> Stunted or Stressed Plants (D1)  |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Geomorphic Position (D2)  |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Shallow Aquitard (D3)   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ Microtopographic Relief (D4)  |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| _____ FAC-Neutral Test (D5)   |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| <b>Field Observations:</b><br><table style="width: 100%;"><tr><td>Surface Water Present?</td><td>Yes <u>X</u></td><td>No _____</td><td>Depth (inches): <u>1</u></td></tr><tr><td>Water Table Present?</td><td>Yes _____</td><td>No <u>X</u></td><td>Depth (inches): _____</td></tr><tr><td>Saturation Present?</td><td>Yes <u>X</u></td><td>No _____</td><td>Depth (inches): <u>4</u></td></tr></table><br>(includes capillary fringe)  |  | Surface Water Present?      | Yes <u>X</u>                       | No _____                    | Depth (inches): <u>1</u>  | Water Table Present?  | Yes _____                 | No <u>X</u>               | Depth (inches): _____            | Saturation Present?          | Yes <u>X</u>                                     | No _____                  | Depth (inches): <u>4</u>            | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____ |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| Surface Water Present?  | Yes <u>X</u>                                     | No _____                    | Depth (inches): <u>1</u>           |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| Water Table Present?  | Yes _____  | No <u>X</u>                 | Depth (inches): _____              |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| Saturation Present?   | Yes <u>X</u>                                     | No _____                    | Depth (inches): <u>4</u>           |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |
| Remarks:  |  |                             |                                    |                             |                           |                       |                           |                           |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |  |                                |                             |                                    |                             |

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

 Sampling Point: G-Q-Wet

| Tree Stratum (Plot size: <u>30'</u> )                        | Absolute % Cover | Dominant Species? | Indicator Status |  |
|--|------------------|-------------------|------------------|--|
| 1. <u><i>Tsuga canadensis</i></u>                            | <u>45</u>        | <u>Yes</u>        | <u>FACU</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)  |
| 2. <u><i>Acer rubrum</i></u>                                 | <u>20</u>        | <u>Yes</u>        | <u>FAC</u>       |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
|  |                  | <u>65</u>         | =Total Cover     |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>         |                  |                   |                  |  |
| 1. <u><i>Hamamelis virginiana</i></u>                        | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
|  |                  | <u>10</u>         | =Total Cover     |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                   |                  |                   |                  |  |
| 1. <u><i>Rubus canadensis</i></u>                            | <u>5</u>         | <u>No</u>         | <u>UPL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2. <u><i>Impatiens capensis</i></u>                          | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |  |
| 3. <u><i>Aronia arbutifolia</i></u>                          | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 4. <u><i>Penthorum sedoides</i></u>                          | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |  |
| 5. <u><i>Dryopteris intermedia</i></u>                       | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| 8. _____   | _____            | _____             | _____            |  |
| 9. _____   | _____            | _____             | _____            |  |
| 10. _____  | _____            | _____             | _____            |  |
| 11. _____  | _____            | _____             | _____            |  |
| 12. _____  | _____            | _____             | _____            |  |
|  |                  | <u>35</u>         | =Total Cover     |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>            |                  |                   |                  |  |
| 1. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                   |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
|  |                  | _____             | =Total Cover     |  |
| <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____ |                  |                   |                  |  |

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

## SOIL

Sampling Point: G-Q-Wet

[illegible]





**Wetland G-Q- View facing South**



**Wetland G-Q- View facing South**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
Applicant/Owner: CHPE State: NY Sampling Point: G-Q-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 142 Lat: 43°35'17.41"N Long: 73°26'18.50"W Datum: \_\_\_\_\_  
Soil Map Unit Name: Rock Outcrop/Hollis 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

### HYDROLOGY

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

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

 Sampling Point: G-Q-Up

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover    | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|--|---------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. <u>Acer saccharum</u>                       | 20                  | Yes               | FACU             | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Acer platanoides</u>                     | 10                  | Yes               | UPL              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Tsuga canadensis</u>                     | 10                  | Yes               | FACU             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. <u>Carpinus caroliniana</u>                 | 10                  | Yes               | FAC              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | 50                  | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                              | Multiply by:        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____                              | x 1 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____                             | x 2 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____                              | x 3 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____                             | x 4 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____                              | x 5 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____                           | (A) _____ (B) _____ |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____                 |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Polystichum acrostichoides</u>           | 10                  | Yes               | FACU             | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Impatiens capensis</u>                   | 5                   | Yes               | FACW             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 8. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 9. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 10. _____                                      |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 11. _____                                      |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 12. _____                                      |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | 15                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Woody Vine Stratum (Plot size: <u>15'</u> )    |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____                                       |                     |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____                                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | =Total Cover      |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>  X  </u>  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

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

## SOIL

Sampling Point: G-Q-Up

[illegible]





**Upland G-Q- View facing North**



**Upland G-Q- View facing Northwest**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-P-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Streamside Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'39.48"N Long: 73°26'22.65"W Datum:   
 Soil Map Unit Name: Rock outcrop NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

Sampling Point: G-P-Wet

| Tree Stratum (Plot size: 30' )          |                             | Absolute % Cover | Dominant Species? | Indicator Status |
|---|-----------------------------|------------------|-------------------|------------------|
| 1.                                      | <i>Salix nigra</i>          | 10               | Yes               | OBL              |
| 2.                                      | <i>Pinus strobus</i>        | 5                | Yes               | FACU             |
| 3.                                      |                             |                  |                   |                  |
| 4.                                      |                             |                  |                   |                  |
| 5.                                      |                             |                  |                   |                  |
| 6.                                      |                             |                  |                   |                  |
| 7.                                      |                             |                  |                   |                  |
|   |                             | 15               | =Total Cover      |                  |
| Sapling/Shrub Stratum (Plot size: 15' ) |                             | Absolute % Cover | Dominant Species? | Indicator Status |
| 1.                                      | <i>Juniperus virginiana</i> | 5                | Yes               | FACU             |
| 2.                                      |                             |                  |                   |                  |
| 3.                                      |                             |                  |                   |                  |
| 4.                                      |                             |                  |                   |                  |
| 5.                                      |                             |                  |                   |                  |
| 6.                                      |                             |                  |                   |                  |
| 7.                                      |                             |                  |                   |                  |
|   |                             | 5                | =Total Cover      |                  |
| Herb Stratum (Plot size: 5' )           |                             | Absolute % Cover | Dominant Species? | Indicator Status |
| 1.                                      | <i>Onoclea sensibilis</i>   | 45               | Yes               | FACW             |
| 2.                                      | <i>Lythrum salicaria</i>    | 25               | Yes               | OBL              |
| 3.                                      |                             |                  |                   |                  |
| 4.                                      |                             |                  |                   |                  |
| 5.                                      |                             |                  |                   |                  |
| 6.                                      |                             |                  |                   |                  |
| 7.                                      |                             |                  |                   |                  |
| 8.                                      |                             |                  |                   |                  |
| 9.                                      |                             |                  |                   |                  |
| 10.                                     |                             |                  |                   |                  |
| 11.                                     |                             |                  |                   |                  |
| 12.                                     |                             |                  |                   |                  |
|   |                             | 70               | =Total Cover      |                  |
| Woody Vine Stratum (Plot size: 15' )    |                             | Absolute % Cover | Dominant Species? | Indicator Status |
| 1.                                      |                             |                  |                   |                  |
| 2.                                      |                             |                  |                   |                  |
| 3.                                      |                             |                  |                   |                  |
| 4.                                      |                             |                  |                   |                  |
|   |                             |                  | =Total Cover      |                  |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of:        | Multiply by: |
|--------------------------|--------------|
| OBL species              | x 1 =        |
| FACW species             | x 2 =        |
| FAC species              | x 3 =        |
| FACU species             | x 4 =        |
| UPL species              | x 5 =        |
| Column Totals:           | (A) (B)      |
| Prevalence Index = B/A = |              |

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, 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

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

## SOIL

Sampling Point: G-P-Wet

[illegible]





**Wetland G-P- View facing South East**



**Wetland G-P- Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-P-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Streamside Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'39.48"N Long: 73°26'22.65"W Datum:   
 Soil Map Unit Name: Rock outcrop 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-P-Up

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. <u><i>Pinus strobus</i></u>                 | 30               | Yes               | FACU             | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u><i>Acer saccharum</i></u>                | 20               | Yes               | FACU             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  | 50               | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                              | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                              | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                             | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                              | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                             | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                              | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                       | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                 |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u><i>Solidago juncea</i></u>               | 15               | Yes               | UPL              | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u><i>Centaurea stoebe</i></u>              | 15               | Yes               | UPL              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____                                      |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____                                      |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____                                      |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  | 30               | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Woody Vine Stratum (Plot size: <u>15'</u> )    |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u><i>Parthenocissus quinquefolia</i></u>   | 5                | Yes               | FACU             | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  | 5                | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: G-P-Up

[illegible]





**Upland G-P- View facing West**



**Upland G-P- View facing West**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-N-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'30.55"N Long: 73°26'11.64"W Datum:   
 Soil Map Unit Name: Vergennes Silty Clay Loam NWI classification: PEM (wet meadow)  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |   |
|--|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><u></u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9)<br><u></u> High Water Table (A2) <u></u> Aquatic Fauna (B13)<br><u></u> Saturation (A3) <u></u> Marl Deposits (B15)<br><u></u> Water Marks (B1) <u></u> Hydrogen Sulfide Odor (C1)<br><u></u> Sediment Deposits (B2) <u></u> Oxidized Rhizospheres on Living Roots (C3)<br><u></u> Drift Deposits (B3) <u></u> Presence of Reduced Iron (C4)<br><u></u> Algal Mat or Crust (B4) <u></u> Recent Iron Reduction in Tilled Soils (C6)<br><u></u> Iron Deposits (B5) <u></u> Thin Muck Surface (C7)<br><u></u> Inundation Visible on Aerial Imagery (B7) <u></u> Other (Explain in Remarks)<br><u></u> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><u></u> Surface Soil Cracks (B6)<br><u>X</u> Drainage Patterns (B10)<br><u></u> Moss Trim Lines (B16)<br><u></u> Dry-Season Water Table (C2)<br><u></u> Crayfish Burrows (C8)<br><u></u> Saturation Visible on Aerial Imagery (C9)<br><u></u> Stunted or Stressed Plants (D1)<br><u></u> Geomorphic Position (D2)<br><u></u> Shallow Aquitard (D3)<br><u></u> Microtopographic Relief (D4)<br><u>X</u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>6</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |   |
| Remarks:   |  |   |

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

 Sampling Point: G-N-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover    | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|--|---------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. <u>Acer rubrum</u>                                | 10                  | Yes               | FAC              | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____                                    | x 1 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____                                   | x 2 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____                                    | x 3 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____                                   | x 4 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____                                    | x 5 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____                                 | (A) _____ (B) _____ |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | 10                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Phalaris arundinacea</u>                       | 50                  | Yes               | FACW             | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Typha latifolia</u>                            | 30                  | Yes               | OBL              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Lythrum salicaria</u>                          | 10                  | No                | OBL              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. <u>Symphyotrichum racemosum</u>                   | 5                   | No                | FACW             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 8. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 9. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 10. _____  |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 11. _____  |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 12. _____  |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | 95                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>15"</u>)</b>    |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

**Definitions of Vegetation Strata:**  
  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
  
**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?**      Yes X      No \_\_\_\_\_

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



## SOIL

Sampling Point: G-N-Wet

[illegible]





**Wetland G-N- View facing East**



**Wetland G-N- View facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-N-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'30.55"N Long: 73°26'11.64"W Datum:   
 Soil Map Unit Name: Vergennes 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-N-Up

| Tree Stratum (Plot size: <u>30'</u> )                         | Absolute<br>% Cover | Dominant<br>Species? | Indicator<br>Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|---|---------------------|----------------------|---------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. <u>Acer negundo</u>  | 15                  | Yes                  | FAC                 | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|   | 15                  | =Total Cover         |                     | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:   | Multiply by:        |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____   | x 1 = _____         |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____  | x 2 = _____         |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____   | x 3 = _____         |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____  | x 4 = _____         |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____   | x 5 = _____         |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____  | (A) _____ (B) _____ |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____                                |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>          |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Rhus typhina</u>  | 10                  | Yes                  | UPL                 |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|   | 10                  | =Total Cover         |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                    |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Solidago juncea</u>                                     | 25                  | Yes                  | UPL                 | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Daucus carota</u>                                       | 20                  | Yes                  | UPL                 |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Phalaris arundinacea</u>                                | 20                  | Yes                  | FACW                |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 8. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 9. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 10. _____   |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 11. _____   |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 12. _____   |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|   | 65                  | =Total Cover         |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>15"</u>)</b>             |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____  |                     |                      |                     | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____  |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|   |                     |                      |                     | <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>  X  </u>  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Remarks: (Include photo numbers here or on a separate sheet.) |                     |                      |                     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

## SOIL

Sampling Point: G-N-Up

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |     |                |   |                   |                  |              |         |
|---|---------------|-----|----------------|---|-------------------|------------------|--------------|---------|
| Depth<br>(inches)   | Matrix        |     | Redox Features |   |                   |                  | Texture      | Remarks |
|   | Color (moist) | %   | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |              |         |
| 0-12  | 10YR 4/3      | 100 |                |   |                   |                  | Loamy/Clayey |         |
|   |               |     |                |   |                   |                  |              |         |
|   |               |     |                |   |                   |                  |              |         |
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|   |               |     |                |   |                   |                  |              |         |
|   |               |     |                |   |                   |                  |              |         |
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|   |               |     |                |   |                   |                  |              |         |
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|   |               |     |                |   |                   |                  |              |         |
|   |               |     |                |   |                   |                  |              |         |
|   |               |     |                |   |                   |                  |              |         |
|   |               |     |                |   |                   |                  |              |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

| Hydric Soil Indicators:                                    |                          |   | Indicators for Problematic Hydric Soils <sup>3</sup> :                       |  |  |
|--|--------------------------|---|--|--|--|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> | Polyvalue Below Surface (S8) ( <b>LRR R,</b>      | <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B)</b>       |  |  |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> | <b>MLRA 149B)</b>                                 | <input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R)</b>     |  |  |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> | Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B)</b> | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R)</b>  |  |  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> | High Chroma Sands (S11) ( <b>LRR K, L)</b>        | <input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L)</b>     |  |  |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> | Loamy Mucky Mineral (F1) ( <b>LRR K, L)</b>       | <input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L)</b>           |  |  |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> | Loamy Gleyed Matrix (F2)                          | <input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R)</b>   |  |  |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> | Depleted Matrix (F3)                              | <input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B)</b> |  |  |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> | Redox Dark Surface (F6)                           | <input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B)</b>   |  |  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          | <input type="checkbox"/> | Depleted Dark Surface (F7)                        | <input type="checkbox"/> Red Parent Material (F21)                           |  |  |
| <input type="checkbox"/> Sandy Redox (S5)                  | <input type="checkbox"/> | Redox Depressions (F8)                            | <input type="checkbox"/> Very Shallow Dark Surface (F22)                     |  |  |
| <input type="checkbox"/> Stripped Matrix (S6)              | <input type="checkbox"/> | Marl (F10) ( <b>LRR K, L)</b>                     | <input type="checkbox"/> Other (Explain in Remarks)                          |  |  |
| <input type="checkbox"/> Dark Surface (S7)                 |                          |   |  |  |  |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): |  | Hydric Soil Present? |    |
|----------------------------------|--|----------------------|----|
| Type: _____                      |  | Yes                  | No |
| Depth (inches): _____            |  | X                    |    |

Remarks:  
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. ([http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_051293.docx](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx))





**Upland G-N- View facing West**



**Upland G-N- View facing West**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-O-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside ditch Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'31.27"N Long: 73°26'14.86"W Datum:   
 Soil Map Unit Name: Vergennes Silty Clay Loam NWI classification: PEM (wet meadow/ditch)

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |  |   |
|---|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><u></u> Surface Water (A1) <u></u> Water-Stained Leaves (B9)<br><u></u> High Water Table (A2) <u></u> Aquatic Fauna (B13)<br><u></u> Saturation (A3) <u></u> Marl Deposits (B15)<br><u></u> Water Marks (B1) <u></u> Hydrogen Sulfide Odor (C1)<br><u></u> Sediment Deposits (B2) <u></u> Oxidized Rhizospheres on Living Roots (C3)<br><u></u> Drift Deposits (B3) <u></u> Presence of Reduced Iron (C4)<br><u></u> Algal Mat or Crust (B4) <u></u> Recent Iron Reduction in Tilled Soils (C6)<br><u></u> Iron Deposits (B5) <u></u> Thin Muck Surface (C7)<br><u></u> Inundation Visible on Aerial Imagery (B7) <u></u> Other (Explain in Remarks)<br><u></u> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><u></u> Surface Soil Cracks (B6)<br><u>X</u> Drainage Patterns (B10)<br><u></u> Moss Trim Lines (B16)<br><u></u> Dry-Season Water Table (C2)<br><u></u> Crayfish Burrows (C8)<br><u></u> Saturation Visible on Aerial Imagery (C9)<br><u></u> Stunted or Stressed Plants (D1)<br><u></u> Geomorphic Position (D2)<br><u></u> Shallow Aquitard (D3)<br><u></u> Microtopographic Relief (D4)<br><u>X</u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>10</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |   |
| Remarks:  |  |   |

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

 Sampling Point: G-O-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                                    | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                                   | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                                    | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                                   | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                                    | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                             | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Typha latifolia</u>                            | 50               | Yes               | OBL              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Lythrum salicaria</u>                          | 35               | Yes               | OBL              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Symphyotrichum racemosum</u>                   | 10               | No                | FACW             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | 95 =Total Cover   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum (Plot size: _____)</b>         |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, 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

## SOIL

Sampling Point: G-O-Wet

[illegible]





**Wetland G-O- View facing Southwest**



**Wetland G-O- View facing South**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-O-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside ditch Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'31.27"N Long: 73°26'14.86"W Datum:   
 Soil Map Unit Name: Vergennes 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-O-Up

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-----------------------|-----------------|------------------------|-----------------|----------------------|----------------|------------------------|------------------|----------------------|----------------|------------------------------|----------------|--------------------------------------|--|
| 1. _____                                       | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover                                   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>25</u></td> <td>x 4 = <u>100</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>70</u> (A)</td> <td><u>180</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.57</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>10</u> | x 1 = <u>10</u> | FACW species <u>35</u> | x 2 = <u>70</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>25</u> | x 4 = <u>100</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>70</u> (A) | <u>180</u> (B) | Prevalence Index = B/A = <u>2.57</u> |  |
| Total % Cover of:                              | Multiply by:     |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| OBL species <u>10</u>                          | x 1 = <u>10</u>  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| FACW species <u>35</u>                         | x 2 = <u>70</u>  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| FAC species <u>0</u>                           | x 3 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| FACU species <u>25</u>                         | x 4 = <u>100</u> |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| UPL species <u>0</u>                           | x 5 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| Column Totals: <u>70</u> (A)                   | <u>180</u> (B)   |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| Prevalence Index = B/A = <u>2.57</u>           |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover                                   |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 1. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover                                   |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover                                   |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 1. <u>Solidago altissima</u>                   | <u>25</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 2. <u>Phalaris arundinacea</u>                 | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 3. <u>Lythrum salicaria</u>                    | <u>10</u>        | <u>No</u>         | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 4. <u>Phragmites australis</u>                 | <u>10</u>        | <u>No</u>         | <u>FACW</u>      |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 5. <u>Symphyotrichum novae-angliae</u>         | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 8. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 9. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 10. _____                                      | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 11. _____                                      | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 12. _____                                      | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 70 =Total Cover                                |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| Woody Vine Stratum (Plot size: _____)          |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 1. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover                                   |                  |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover                                   |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover                                   |                  |                   |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>  |                   |              |                       |                 |                        |                 |                      |                |                        |                  |                      |                |                              |                |                                      |  |

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

## SOIL

Sampling Point: G-O-Up

[illegible]





**Upland G-O- View facing Southeast**



**Upland G-O- View facing Northeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-L-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Lakeside (Toeslope) Local relief (concave, convex, none): Concave Slope %: 3  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43,34,25.55N Long: 73,26,01.35W Datum:   
 Soil Map Unit Name: Sapristis NWI classification: L2AB

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |   |
|--|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): <u>6</u><br>Water Table Present? Yes <u>X</u> No <u></u> Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>2</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |   |
| Remarks:   |  |   |

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

 Sampling Point: G-L-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |
|--|------------------|-------------------|------------------|--|
| 1. <u>Acer saccharinum</u>                           | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)  |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
|  | <u>20</u>        | =Total Cover      |                  |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |
| 1. <u>Cephalanthus occidentalis</u>                  | <u>5</u>         | <u>Yes</u>        | <u>OBL</u>       | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
|  | <u>5</u>         | =Total Cover      |                  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |
| 1. <u>Acorus calamus</u>                             | <u>25</u>        | <u>Yes</u>        | <u>OBL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2. <u>Pontederia cordata</u>                         | <u>10</u>        | <u>No</u>         | <u>OBL</u>       |  |
| 3. <u>Nuphar advena</u>                              | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |  |
| 4. <u>Xanthium stumarium</u>                         | <u>10</u>        | <u>No</u>         | _____            |  |
| 5. <u>Lythrum salicaria</u>                          | <u>20</u>        | <u>Yes</u>        | <u>OBL</u>       |  |
| 6. <u>Bidens frondosa</u>                            | <u>25</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 7. <u>Typha latifolia</u>                            | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |  |
| 8. _____   | _____            | _____             | _____            |  |
| 9. _____   | _____            | _____             | _____            |  |
| 10. _____  | _____            | _____             | _____            |  |
| 11. _____  | _____            | _____             | _____            |  |
| 12. _____  | _____            | _____             | _____            |  |
|  | <u>100</u>       | =Total Cover      |                  |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |  |
| 1. <u>Parthenocissus quinquefolia</u>                | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                               |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
|  | <u>5</u>         | =Total Cover      |                  |  |

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

## SOIL

Sampling Point: G-L-Wet

[illegible]





**Wetland G-L- View facing Southwest**



**Wetland G-L- View facing Southeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-L-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Lakeside (Toeslope) Local relief (concave, convex, none): Concave Slope %: 3  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'25.55"N Long: 73°26'01.35"W Datum:   
 Soil Map Unit Name: Saprists 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-L-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|----------------------|----------------|------------------------|-----------------|-----------------------|-----------------|------------------------|-----------------|-----------------------|------------------|------------------------------|----------------|--------------------------------------|--|
| 1. <u>Acer saccharinum</u>                           | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. <u>Robinia pseudoacacia</u>                       | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| <u>20</u>  |                  | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>15</u></td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL species <u>25</u></td> <td>x 5 = <u>125</u></td> </tr> <tr> <td>Column Totals: <u>65</u> (A)</td> <td><u>250</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.85</u></td> </tr> </tbody> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>10</u> | x 2 = <u>20</u> | FAC species <u>15</u> | x 3 = <u>45</u> | FACU species <u>15</u> | x 4 = <u>60</u> | UPL species <u>25</u> | x 5 = <u>125</u> | Column Totals: <u>65</u> (A) | <u>250</u> (B) | Prevalence Index = B/A = <u>3.85</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| FACW species <u>10</u>                               | x 2 = <u>20</u>  |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| FAC species <u>15</u>                                | x 3 = <u>45</u>  |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| FACU species <u>15</u>                               | x 4 = <u>60</u>  |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| UPL species <u>25</u>                                | x 5 = <u>125</u> |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| Column Totals: <u>65</u> (A)                         | <u>250</u> (B)   |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| Prevalence Index = B/A = <u>3.85</u>                 |                  |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 1. <u>Rhus typhina</u>                               | <u>15</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| <u>15</u>  |                  | =Total Cover      |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 1. <u>Baptisia tinctoria</u>                         | <u>10</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. <u>Xanthium strumarium</u>                        | <u>5</u>         | <u>Yes</u>        | <u>FAC</u>       |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. <u>Phytolacca americana</u>                       | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| <u>20</u>  |                  | =Total Cover      |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 1. <u>Vitis riparia</u>                              | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |
| <u>10</u>  |                  | =Total Cover      |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>  |                   |              |                      |                |                        |                 |                       |                 |                        |                 |                       |                  |                              |                |                                      |  |

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

## SOIL

Sampling Point: G-L-Up

[illegible]





**Upland G-L- View facing West**



**Upland G-L- View facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-M-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Lakeside (Toeslope) Local relief (concave, convex, none): Concave Slope %: 3  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43,34,26.50N Long: 73,26,00.53W Datum:   
 Soil Map Unit Name: Sapristis NWI classification: L1UB

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |   |
|--|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): <u>8</u><br>Water Table Present? Yes <u>X</u> No <u></u> Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>1</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |   |
| Remarks:   |  |   |

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

 Sampling Point: G-M-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover                            | Dominant Species? | Indicator Status  |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|--|---|-------------------|-------------------|---|-------------------|--------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|----------------------------------|---|--|--|
| 1. <u>Salix nigra</u>                                | <u>10</u>                                   | <u>Yes</u>        | <u>OBL</u>        | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>10</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>          </u></td> <td>x 1 = <u>          </u></td> </tr> <tr> <td>FACW species <u>          </u></td> <td>x 2 = <u>          </u></td> </tr> <tr> <td>FAC species <u>          </u></td> <td>x 3 = <u>          </u></td> </tr> <tr> <td>FACU species <u>          </u></td> <td>x 4 = <u>          </u></td> </tr> <tr> <td>UPL species <u>          </u></td> <td>x 5 = <u>          </u></td> </tr> <tr> <td>Column Totals: <u>          </u></td> <td>(A) <u>          </u> (B) <u>          </u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>          </u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>          </u> | x 1 = <u>          </u> | FACW species <u>          </u> | x 2 = <u>          </u> | FAC species <u>          </u> | x 3 = <u>          </u> | FACU species <u>          </u> | x 4 = <u>          </u> | UPL species <u>          </u> | x 5 = <u>          </u> | Column Totals: <u>          </u> | (A) <u>          </u> (B) <u>          </u> | Prevalence Index = B/A = <u>          </u> |  |
| Total % Cover of:                                    | Multiply by:                                |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| OBL species <u>          </u>                        | x 1 = <u>          </u>                     |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| FACW species <u>          </u>                       | x 2 = <u>          </u>                     |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| FAC species <u>          </u>                        | x 3 = <u>          </u>                     |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| FACU species <u>          </u>                       | x 4 = <u>          </u>                     |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| UPL species <u>          </u>                        | x 5 = <u>          </u>                     |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| Column Totals: <u>          </u>                     | (A) <u>          </u> (B) <u>          </u> |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| Prevalence Index = B/A = <u>          </u>           |   |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u>Populus deltoides</u>                          | <u>10</u>                                   | <u>Yes</u>        | <u>FAC</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>Acer saccharinum</u>                           | <u>10</u>                                   | <u>Yes</u>        | <u>FACW</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 5. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 6. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 7. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>30</u>         | =Total Cover      |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |   |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 1. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> | <b>Hydrophytic Vegetation Indicators:</b><br><u>          </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>          </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>          </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>          </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 5. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 6. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 7. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>          </u> | =Total Cover      |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |   |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 1. <u>Acorus calamus</u>                             | <u>25</u>                                   | <u>Yes</u>        | <u>OBL</u>        | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>          </u>  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u>Pontederia cordata</u>                         | <u>10</u>                                   | <u>Yes</u>        | <u>OBL</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>Nuphar advena</u>                              | <u>15</u>                                   | <u>Yes</u>        | <u>OBL</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>Xanthium stumarium</u>                         | <u>10</u>                                   | <u>Yes</u>        | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 5. <u>Lythrum salicaria</u>                          | <u>10</u>                                   | <u>Yes</u>        | <u>OBL</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 6. <u>Bidens frondosa</u>                            | <u>10</u>                                   | <u>Yes</u>        | <u>FACW</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 7. <u>Polygonum sp</u>                               | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 8. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 9. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 10. <u>                                  </u>        | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 11. <u>                                  </u>        | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 12. <u>                                  </u>        | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>80</u>         | =Total Cover      |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |   |                   |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 1. <u>Parthenocissus quinquefolia</u>                | <u>5</u>                                    | <u>Yes</u>        | <u>FACU</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>5</u>          | =Total Cover      |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |

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

## SOIL

Sampling Point: G-M-Wet

[illegible]





**Wetland G-M- View facing Northwest**



**Wetland G-M- View facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/08/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-M-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Lakeside (Toeslope) Local relief (concave, convex, none): Concave Slope %: 3  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'26.50"N Long: 73°26'00.53"W Datum:   
 Soil Map Unit Name: Saprists 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

Sampling Point: G-M-Up

| Tree Stratum          | (Plot size: 30' )          | Absolute % Cover | Dominant Species? | Indicator Status |  |
|-----------------------|----------------------------|------------------|-------------------|------------------|--|
| 1.                    |                            |                  |                   |                  |  |
| 2.                    |                            |                  |                   |                  |  |
| 3.                    |                            |                  |                   |                  |  |
| 4.                    |                            |                  |                   |                  |  |
| 5.                    |                            |                  |                   |                  |  |
| 6.                    |                            |                  |                   |                  |  |
| 7.                    |                            |                  |                   |                  |  |
|                       |                            | =Total Cover     |                   |                  |  |
| Sapling/Shrub Stratum | (Plot size: 15' )          |                  |                   |                  |  |
| 1.                    | <i>Rhus typhina</i>        | 10               | Yes               | UPL              |  |
| 2.                    |                            |                  |                   |                  |  |
| 3.                    |                            |                  |                   |                  |  |
| 4.                    |                            |                  |                   |                  |  |
| 5.                    |                            |                  |                   |                  |  |
| 6.                    |                            |                  |                   |                  |  |
| 7.                    |                            |                  |                   |                  |  |
|                       |                            | 10 =Total Cover  |                   |                  |  |
| Herb Stratum          | (Plot size: 5' )           |                  |                   |                  |  |
| 1.                    | <i>Baptisia tinctoria</i>  | 20               | Yes               | UPL              |  |
| 2.                    | <i>Xanthium strumarium</i> | 5                | No                | FAC              |  |
| 3.                    | <i>Bidens frondosa</i>     | 5                | No                | FACW             |  |
| 4.                    |                            |                  |                   |                  |  |
| 5.                    |                            |                  |                   |                  |  |
| 6.                    |                            |                  |                   |                  |  |
| 7.                    |                            |                  |                   |                  |  |
| 8.                    |                            |                  |                   |                  |  |
| 9.                    |                            |                  |                   |                  |  |
| 10.                   |                            |                  |                   |                  |  |
| 11.                   |                            |                  |                   |                  |  |
| 12.                   |                            |                  |                   |                  |  |
|                       |                            | 30 =Total Cover  |                   |                  |  |
| Woody Vine Stratum    | (Plot size: 15' )          |                  |                   |                  |  |
| 1.                    | <i>Vitis riparia</i>       | 20               | Yes               | FAC              |  |
| 2.                    |                            |                  |                   |                  |  |
| 3.                    |                            |                  |                   |                  |  |
| 4.                    |                            |                  |                   |                  |  |
|                       |                            | 20 =Total Cover  |                   |                  |  |

**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)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of:                          | Multiply by:            |
|--|-------------------------|
| OBL species <u>          </u>              | x 1 = <u>          </u> |
| FACW species <u>          </u>             | x 2 = <u>          </u> |
| FAC species <u>          </u>              | x 3 = <u>          </u> |
| FACU species <u>          </u>             | x 4 = <u>          </u> |
| UPL species <u>          </u>              | x 5 = <u>          </u> |
| Column Totals: <u>          </u> (A)       | <u>          </u> (B)   |
| Prevalence Index = B/A = <u>          </u> |                         |

**Hydrophytic Vegetation Indicators:**

       1 - Rapid Test for Hydrophytic Vegetation

       2 - Dominance Test is >50%

       3 - Prevalence Index is ≤3.0<sup>1</sup>

       4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, 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             No   X

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

## SOIL

Sampling Point: G-M-Up

[illegible]





**Upland G-M- View facing West**



**Upland G-M- View facing Northeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-K-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Lakeside (Toeslope) Local relief (concave, convex, none): Concave Slope %: 3  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34,19.23N Long: 73°25,40.15W Datum:   
 Soil Map Unit Name: Sapristis NWI classification: L2AB

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |   |
|--|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): <u>5</u><br>Water Table Present? Yes <u>X</u> No <u></u> Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>2</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |   |
| Remarks:   |  |   |

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

 Sampling Point: G-K-Wet

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover   | Dominant Species? | Indicator Status |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
|--|--------------------|-------------------|------------------|---|-------------------|--------------|-----------------------|-----------------|------------------------|-----------------|----------------------|----------------|-----------------------|-----------------|----------------------|----------------|--------------------------|--------------------|--------------------------------------|--|
| 1. _____                                       | _____              | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>4</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 2. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 3. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 4. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 5. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 6. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 7. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| =Total Cover                                   |                    |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>48</u></td> <td>x 1 = <u>48</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>83</u></td> <td>(A) <u>128</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.54</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>48</u> | x 1 = <u>48</u> | FACW species <u>30</u> | x 2 = <u>60</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>5</u> | x 4 = <u>20</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>83</u> | (A) <u>128</u> (B) | Prevalence Index = B/A = <u>1.54</u> |  |
| Total % Cover of:                              | Multiply by:       |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| OBL species <u>48</u>                          | x 1 = <u>48</u>    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| FACW species <u>30</u>                         | x 2 = <u>60</u>    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| FAC species <u>0</u>                           | x 3 = <u>0</u>     |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| FACU species <u>5</u>                          | x 4 = <u>20</u>    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| UPL species <u>0</u>                           | x 5 = <u>0</u>     |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| Column Totals: <u>83</u>                       | (A) <u>128</u> (B) |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| Prevalence Index = B/A = <u>1.54</u>           |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| =Total Cover                                   |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 1. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 2. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 3. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 4. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 5. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 6. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 7. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| =Total Cover                                   |                    |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>  </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>  </u> 2 - Dominance Test is >50%<br><u>  </u> X 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>  </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>  </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| =Total Cover                                   |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 1. <u>Acorus calamus</u>                       | <u>3</u>           | <u>No</u>         | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 2. <u>Pontederia cordata</u>                   | <u>5</u>           | <u>No</u>         | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 3. <u>Nuphar advena</u>                        | <u>15</u>          | <u>No</u>         | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 4. <u>Xanthium stumarium</u>                   | <u>20</u>          | <u>Yes</u>        |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 5. <u>Lythrum salicaria</u>                    | <u>25</u>          | <u>Yes</u>        | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 6. <u>Bidens frondosa</u>                      | <u>30</u>          | <u>Yes</u>        | <u>FACW</u>      |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 7. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 8. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 9. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 10. _____                                      | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 11. _____                                      | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 12. _____                                      | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 98 =Total Cover                                |                    |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| =Total Cover                                   |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| Woody Vine Stratum (Plot size: <u>15'</u> )    |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 1. <u>Parthenocissus quinquefolia</u>          | <u>5</u>           | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 2. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 3. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 4. _____                                       | _____              | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |
| 5 =Total Cover                                 |                    |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                 |                      |                |                          |                    |                                      |  |

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

## SOIL

Sampling Point: G-K-Wet

[illegible]





**Wetland G-K- View facing West**



**Wetland G-K- View facing East**

**Phase 1**

## **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-K-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Lakeside (Toeslope) Local relief (concave, convex, none): Concave Slope %: 3  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34',19.23"N Long: 73°25',40.15"W Datum:   
 Soil Map Unit Name: Saprists 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-K-Up

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species?   | Indicator Status |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
|--|------------------|---------------------|------------------|--|-------------------|--------------|----------------------|----------------|------------------------|-----------------|----------------------|-----------------|------------------------|-----------------|-----------------------|------------------|------------------------------|----------------|--------------------------------------|--|
| 1. <u>Ulmus americana</u>                      | <u>10</u>        | <u>Yes</u>          | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. <u>Rhus typhina</u>                         | <u>10</u>        | <u>Yes</u>          | <u>UPL</u>       |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 5. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 6. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 7. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
|  | <u>20</u>        | <u>=Total Cover</u> |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>30</u></td> <td>x 5 = <u>150</u></td> </tr> <tr> <td>Column Totals: <u>55</u> (A)</td> <td><u>225</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.09</u></td> </tr> </tbody> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>10</u> | x 2 = <u>20</u> | FAC species <u>5</u> | x 3 = <u>15</u> | FACU species <u>10</u> | x 4 = <u>40</u> | UPL species <u>30</u> | x 5 = <u>150</u> | Column Totals: <u>55</u> (A) | <u>225</u> (B) | Prevalence Index = B/A = <u>4.09</u> |  |
| Total % Cover of:                              | Multiply by:     |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| OBL species <u>0</u>                           | x 1 = <u>0</u>   |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| FACW species <u>10</u>                         | x 2 = <u>20</u>  |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| FAC species <u>5</u>                           | x 3 = <u>15</u>  |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| FACU species <u>10</u>                         | x 4 = <u>40</u>  |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| UPL species <u>30</u>                          | x 5 = <u>150</u> |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| Column Totals: <u>55</u> (A)                   | <u>225</u> (B)   |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| Prevalence Index = B/A = <u>4.09</u>           |                  |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 1. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 5. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 6. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 7. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
|  |                  | <u>=Total Cover</u> |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 1. <u>Baptisia tinctoria</u>                   | <u>20</u>        | <u>Yes</u>          | <u>UPL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>_____</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. <u>Cirsium arvense</u>                      | <u>10</u>        | <u>Yes</u>          | <u>FACU</u>      |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 5. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 6. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 7. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 8. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 9. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 10. _____                                      | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 11. _____                                      | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 12. _____                                      | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
|  | <u>30</u>        | <u>=Total Cover</u> |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| Woody Vine Stratum (Plot size: <u>15'</u> )    |                  |                     |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 1. <u>Vitis riparia</u>                        | <u>5</u>         | <u>Yes</u>          | <u>FAC</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 2. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 3. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
| 4. _____                                       | _____            | _____               | _____            |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |
|  | <u>5</u>         | <u>=Total Cover</u> |                  |  |                   |              |                      |                |                        |                 |                      |                 |                        |                 |                       |                  |                              |                |                                      |  |

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

## SOIL

Sampling Point: G-K-Up

[illegible]





**Upland G-K- View facing Northwest**



**Upland G-K- View facing Northeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
Applicant/Owner: CHPE State: NY Sampling Point: G-J-Wet  
Investigator(s): KW, KS Section, Township, Range: Whitehall  
Landform (hillside, terrace, etc.): Lakeside Local relief (concave, convex, none): Concave Slope %: 3  
Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40°,33',35,24"N Long: 73°,24',28,02"W Datum: \_\_\_\_\_  
Soil Map Unit Name: Saprists NWI classification: L2AB  
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

### HYDROLOGY

|  |   |  |  |
|--|---|--|--|
| <b>Wetland Hydrology Indicators:</b>   |   | <u>Secondary Indicators (minimum of two required)</u>              |  |
| <u>Primary Indicators (minimum of one is required; check all that apply)</u>                               |   |  |  |
| <input checked="" type="checkbox"/> Surface Water (A1)   | <input type="checkbox"/> Water-Stained Leaves (B9)                  | <input type="checkbox"/> Surface Soil Cracks (B6)                  |  |
| <input checked="" type="checkbox"/> High Water Table (A2)  | <input type="checkbox"/> Aquatic Fauna (B13)                        | <input type="checkbox"/> Drainage Patterns (B10)                   |  |
| <input type="checkbox"/> Saturation (A3)   | <input type="checkbox"/> Marl Deposits (B15)                        | <input type="checkbox"/> Moss Trim Lines (B16)                     |  |
| <input type="checkbox"/> Water Marks (B1)  | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 | <input type="checkbox"/> Dry-Season Water Table (C2)               |  |
| <input type="checkbox"/> Sediment Deposits (B2)  | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Crayfish Burrows (C8)                     |  |
| <input type="checkbox"/> Drift Deposits (B3)   | <input type="checkbox"/> Presence of Reduced Iron (C4)              | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |  |
| <input type="checkbox"/> Algal Mat or Crust (B4)   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Stunted or Stressed Plants (D1)           |  |
| <input type="checkbox"/> Iron Deposits (B5)  | <input type="checkbox"/> Thin Muck Surface (C7)                     | <input type="checkbox"/> Geomorphic Position (D2)                  |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Other (Explain in Remarks)                 | <input type="checkbox"/> Shallow Aquitard (D3)                     |  |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   |   | <input type="checkbox"/> Microtopographic Relief (D4)              |  |
|  |   | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |  |
| <b>Field Observations:</b>   |   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____            |  |
| Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>4</u>                                      |   |  |  |
| Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u>  |   |  |  |
| Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>2</u>   |   |  |  |
| (includes capillary fringe)  |   |  |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |   |  |  |
| Remarks:   |   |  |  |

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

 Sampling Point: G-J-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                                    | x 1 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                                   | x 2 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                                    | x 3 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                                   | x 4 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                                    | x 5 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                             | _____ (B)        |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                       |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Acorus calamus</u>                             | 5                | No                | OBL              | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Pontederia cordata</u>                         | 10               | No                | OBL              |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Nuphar advena</u>                              | 20               | Yes               | OBL              |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. <u>Xanthium stumarium</u>                         | 20               | Yes               |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. <u>Lythrum salicaria</u>                          | 20               | Yes               | OBL              |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. <u>Bidens frondosa</u>                            | 20               | Yes               | FACW             |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | 95 =Total Cover   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Parthenocissus quinquefolia</u>                | 5                | Yes               | FACU             | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | 5 =Total Cover    |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: G-J-Wet

[illegible]





**Wetland G-J- View facing Northwest**



**Wetland G-J- View facing Northeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-J-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Lakeside (Toeslopes) Local relief (concave, convex, none): Concave Slope %: 3  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'18.23"N Long: 73°25'39.84"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Saprists 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-J-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover                            | Dominant Species? | Indicator Status  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|--|---|-------------------|-------------------|--|-------------------|--------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|----------------------------------|---|--|--|
| 1. <u><i>Ulmus americana</i></u>                     | <u>5</u>                                    | <u>Yes</u>        | <u>FACW</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>          </u></td> <td>x 1 = <u>          </u></td> </tr> <tr> <td>FACW species <u>          </u></td> <td>x 2 = <u>          </u></td> </tr> <tr> <td>FAC species <u>          </u></td> <td>x 3 = <u>          </u></td> </tr> <tr> <td>FACU species <u>          </u></td> <td>x 4 = <u>          </u></td> </tr> <tr> <td>UPL species <u>          </u></td> <td>x 5 = <u>          </u></td> </tr> <tr> <td>Column Totals: <u>          </u></td> <td>(A) <u>          </u> (B) <u>          </u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>          </u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>          </u> | x 1 = <u>          </u> | FACW species <u>          </u> | x 2 = <u>          </u> | FAC species <u>          </u> | x 3 = <u>          </u> | FACU species <u>          </u> | x 4 = <u>          </u> | UPL species <u>          </u> | x 5 = <u>          </u> | Column Totals: <u>          </u> | (A) <u>          </u> (B) <u>          </u> | Prevalence Index = B/A = <u>          </u> |  |
| Total % Cover of:                                    | Multiply by:                                |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| OBL species <u>          </u>                        | x 1 = <u>          </u>                     |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| FACW species <u>          </u>                       | x 2 = <u>          </u>                     |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| FAC species <u>          </u>                        | x 3 = <u>          </u>                     |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| FACU species <u>          </u>                       | x 4 = <u>          </u>                     |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| UPL species <u>          </u>                        | x 5 = <u>          </u>                     |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| Column Totals: <u>          </u>                     | (A) <u>          </u> (B) <u>          </u> |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| Prevalence Index = B/A = <u>          </u>           |   |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u><i>Rhus typhina</i></u>                        | <u>10</u>                                   | <u>Yes</u>        | <u>UPL</u>        |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 5. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 6. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 7. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>15</u>         | =Total Cover      |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |   |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 1. <u><i>Cornus amomum</i></u>                       | <u>5</u>                                    | <u>Yes</u>        | <u>FACW</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>          </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>          </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>          </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>          </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 5. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 6. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 7. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>5</u>          | =Total Cover      |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |   |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 1. <u><i>Baptisia tinctoria</i></u>                  | <u>30</u>                                   | <u>Yes</u>        | <u>UPL</u>        | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>          </u>   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u><i>Xanthium strumarium</i></u>                 | <u>          </u>                           | <u>          </u> | <u>FAC</u>        |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 5. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 6. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 7. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 8. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 9. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 10. <u>                                  </u>        | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 11. <u>                                  </u>        | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 12. <u>                                  </u>        | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>30</u>         | =Total Cover      |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |   |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 1. <u><i>Vitis riparia</i></u>                       | <u>10</u>                                   | <u>Yes</u>        | <u>FAC</u>        |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 2. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 3. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
| 4. <u>                                  </u>         | <u>          </u>                           | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |
|  |   | <u>10</u>         | =Total Cover      |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                  |   |  |  |

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

## SOIL

Sampling Point: G-J-Up

[illegible]





**Upland G-J- View facing West**



**Upland G-J- View facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-I-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside ditch Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34',17.02"N Long: 73°25',37.20"W Datum:   
 Soil Map Unit Name: Kingsbury Silty Clay NWI classification: PEM (wet meadow/ditch)

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |  |  |  |
|---|--|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input checked="" type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |  |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): <u>1</u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>6</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>  |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:<br><br><br><br><br>  |  |  |  |
| Remarks:<br>Mowed roadside ditch.   |  |  |  |

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

 Sampling Point: G-I-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                                    | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                                   | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                                    | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                                   | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                                    | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                             | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Typha latifolia</u>                            | 40               | Yes               | OBL              | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Lythrum salicaria</u>                          | 20               | Yes               | OBL              |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Symphyotrichum racemosum</u>                   | 10               | No                | FACW             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. <u>Bidens frondosa</u>                            | 5                | No                | FACW             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. <u>Phalaris arundinacea</u>                       | 5                | No                | FACW             |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | 80 =Total Cover   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum (Plot size: _____)</b>         |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: G-I-Wet

[illegible]





**Wetland G-I- View facing Southeast**



**Wetland G-I- Viewing facing Northwest**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21

Applicant/Owner: CHPE State: NY Sampling Point: G-I-Up

Investigator(s): KW, KS Section, Township, Range: Whitehall

Landform (hillside, terrace, etc.): Roadside ditch Local relief (concave, convex, none): Concave Slope %: 2

Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°,34',17.02"N Long: 73°,25',37.20"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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

Sampling Point: G-I-Up

| Tree Stratum          | Plot size: 30'           | Absolute % Cover | Dominant Species? | Indicator Status |  |
|-----------------------|--------------------------|------------------|-------------------|------------------|--|
| 1.                    |                          |                  |                   |                  |  |
| 2.                    |                          |                  |                   |                  |  |
| 3.                    |                          |                  |                   |                  |  |
| 4.                    |                          |                  |                   |                  |  |
| 5.                    |                          |                  |                   |                  |  |
| 6.                    |                          |                  |                   |                  |  |
| 7.                    |                          |                  |                   |                  |  |
|                       |                          | =Total Cover     |                   |                  |  |
| Sapling/Shrub Stratum |                          | Plot size: 15'   |                   |                  |  |
| 1.                    |                          |                  |                   |                  |  |
| 2.                    |                          |                  |                   |                  |  |
| 3.                    |                          |                  |                   |                  |  |
| 4.                    |                          |                  |                   |                  |  |
| 5.                    |                          |                  |                   |                  |  |
| 6.                    |                          |                  |                   |                  |  |
| 7.                    |                          |                  |                   |                  |  |
|                       |                          | =Total Cover     |                   |                  |  |
| Herb Stratum          |                          | Plot size: 5'    |                   |                  |  |
| 1.                    | <i>Poa pratensis</i>     | 40               | Yes               | FACU             |  |
| 2.                    | <i>Daucus carota</i>     | 20               | Yes               | UPL              |  |
| 3.                    | <i>Lythrum salicaria</i> | 10               | No                | OBL              |  |
| 4.                    | <i>Asclepias syriaca</i> | 10               | No                | UPL              |  |
| 5.                    |                          |                  |                   |                  |  |
| 6.                    |                          |                  |                   |                  |  |
| 7.                    |                          |                  |                   |                  |  |
| 8.                    |                          |                  |                   |                  |  |
| 9.                    |                          |                  |                   |                  |  |
| 10.                   |                          |                  |                   |                  |  |
| 11.                   |                          |                  |                   |                  |  |
| 12.                   |                          |                  |                   |                  |  |
|                       |                          | 80               | =Total Cover      |                  |  |
| Woody Vine Stratum    |                          | Plot size: _____ |                   |                  |  |
| 1.                    |                          |                  |                   |                  |  |
| 2.                    |                          |                  |                   |                  |  |
| 3.                    |                          |                  |                   |                  |  |
| 4.                    |                          |                  |                   |                  |  |
|                       |                          | =Total Cover     |                   |                  |  |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of:              | Multiply by: |
|--------------------------------|--------------|
| OBL species _____              | x 1 = _____  |
| FACW species _____             | x 2 = _____  |
| FAC species _____              | x 3 = _____  |
| FACU species _____             | x 4 = _____  |
| UPL species _____              | x 5 = _____  |
| Column Totals: _____ (A)       | _____ (B)    |
| Prevalence Index = B/A = _____ |              |

**Hydrophytic Vegetation Indicators:**

\_\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_\_ 2 - Dominance Test is >50%

\_\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, 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 _____ | No <u>X</u> |
|----------|-----------|-------------|

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

## SOIL

Sampling Point: G-I-Up

[illegible]





**Upland G-I- View facing West**



**Upland G-I- View facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-H-Wet  
 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 142 Lat: 43°34',14.58"N Long: 73°25',22.06"W Datum:   
 Soil Map Unit Name: Kingsbury Silt Loam NWI classification: PEM/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 Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |  |
|--|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input checked="" type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): <u>2</u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>6</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |  |
| Remarks:   |  |  |

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

 Sampling Point: G-H-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover        | Dominant Species?              | Indicator Status  |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|--|-------------------------|--------------------------------|-------------------|---|-------------------|--------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------------|-----------------------|--|--|
| 1. <u>Populus deltoides</u>                          | <u>10</u>               | <u>Yes</u>                     | <u>FAC</u>        | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>          </u></td> <td>x 1 = <u>          </u></td> </tr> <tr> <td>FACW species <u>          </u></td> <td>x 2 = <u>          </u></td> </tr> <tr> <td>FAC species <u>          </u></td> <td>x 3 = <u>          </u></td> </tr> <tr> <td>FACU species <u>          </u></td> <td>x 4 = <u>          </u></td> </tr> <tr> <td>UPL species <u>          </u></td> <td>x 5 = <u>          </u></td> </tr> <tr> <td>Column Totals: <u>          </u> (A)</td> <td><u>          </u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>          </u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>          </u> | x 1 = <u>          </u> | FACW species <u>          </u> | x 2 = <u>          </u> | FAC species <u>          </u> | x 3 = <u>          </u> | FACU species <u>          </u> | x 4 = <u>          </u> | UPL species <u>          </u> | x 5 = <u>          </u> | Column Totals: <u>          </u> (A) | <u>          </u> (B) | Prevalence Index = B/A = <u>          </u> |  |
| Total % Cover of:                                    | Multiply by:            |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| OBL species <u>          </u>                        | x 1 = <u>          </u> |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACW species <u>          </u>                       | x 2 = <u>          </u> |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FAC species <u>          </u>                        | x 3 = <u>          </u> |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACU species <u>          </u>                       | x 4 = <u>          </u> |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| UPL species <u>          </u>                        | x 5 = <u>          </u> |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Column Totals: <u>          </u> (A)                 | <u>          </u> (B)   |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Prevalence Index = B/A = <u>          </u>           |                         |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Salix nigra</u>                                | <u>5</u>                | <u>Yes</u>                     | <u>OBL</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>Acer negundo</u>                               | <u>5</u>                | <u>Yes</u>                     | <u>FAC</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  |                         | <u>20</u> =Total Cover         |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                         |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>Cornus racemosa</u>                            | <u>20</u>               | <u>Yes</u>                     | <u>FAC</u>        | <b>Hydrophytic Vegetation Indicators:</b><br><u>          </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>          </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>          </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>          </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Acer negundo</u>                               | <u>5</u>                | <u>Yes</u>                     | <u>FAC</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  |                         | <u>25</u> =Total Cover         |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                         |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>Solidago gigantea</u>                          | <u>40</u>               | <u>Yes</u>                     | <u>FACW</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>          </u>  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Typha latifolia</u>                            | <u>25</u>               | <u>Yes</u>                     | <u>OBL</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>Phalaris arundinacea</u>                       | <u>20</u>               | <u>No</u>                      | <u>FACW</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>Lythrum salicaria</u>                          | <u>15</u>               | <u>No</u>                      | <u>OBL</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>Symphotrichum racemosum</u>                    | <u>5</u>                | <u>No</u>                      | <u>FACW</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 8. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 9. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 10. <u>                                </u>          | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 11. <u>                                </u>          | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 12. <u>                                </u>          | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  |                         | <u>105</u> =Total Cover        |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                         |                                |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                </u>           | <u>          </u>       | <u>          </u>              | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  |                         | <u>          </u> =Total Cover |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |

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

## SOIL

Sampling Point: G-H-Wet

[illegible]





**Wetland G-H- View facing East**



**Wetland G-H- View facing North**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-H-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 142 Lat: 43°34',14.58"N Long: 73°25',22.06"W Datum:   
 Soil Map Unit Name: Kingsbury 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-H-Up

| Tree Stratum (Plot size: <u>30'</u> )                                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:  | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____  | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____   | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____  | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____   | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____  | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)   | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>                 |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Rhus typhina</u>   | <u>10</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Lonicera tatarica</u>  | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                           |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Daucus carota</u>  | <u>20</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Cirsium arvense</u>  | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Echinochloa crus-galli</u>                                     | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. <u>Lythrum salicaria</u>  | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. <u>Arctium minus</u>  | <u>5</u>         | <u>No</u>         | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>                    |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Vitis aestivalis</u>   | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u> |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: G-H-Up

[illegible]





**Upland G-H- View facing West**



**Upland G-H- View facing West**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
Applicant/Owner: CHPE State: NY Sampling Point: G-G-Wet  
Investigator(s): KW, KS Section, Township, Range: Whitehall  
Landform (hillside, terrace, etc.): Shoulders Local relief (concave, convex, none): Concave Slope %: 0  
Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40°34',14,07"N Long: 73°25',16,24"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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

### HYDROLOGY

|  |  |  |  |
|--|--|--|--|
| <b>Wetland Hydrology Indicators:</b>   |  | <u>Secondary Indicators (minimum of two required)</u>              |  |
| <u>Primary Indicators (minimum of one is required; check all that apply)</u>                               |  |  |  |
| <input type="checkbox"/> Surface Water (A1)  | <input checked="" type="checkbox"/> Water-Stained Leaves (B9)                  | <input type="checkbox"/> Surface Soil Cracks (B6)                  |  |
| <input type="checkbox"/> High Water Table (A2)   | <input type="checkbox"/> Aquatic Fauna (B13)                                   | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |  |
| <input type="checkbox"/> Saturation (A3)   | <input type="checkbox"/> Marl Deposits (B15)                                   | <input type="checkbox"/> Moss Trim Lines (B16)                     |  |
| <input type="checkbox"/> Water Marks (B1)  | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                            | <input type="checkbox"/> Dry-Season Water Table (C2)               |  |
| <input type="checkbox"/> Sediment Deposits (B2)  | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Crayfish Burrows (C8)                     |  |
| <input type="checkbox"/> Drift Deposits (B3)   | <input type="checkbox"/> Presence of Reduced Iron (C4)                         | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |  |
| <input type="checkbox"/> Algal Mat or Crust (B4)   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)            | <input type="checkbox"/> Stunted or Stressed Plants (D1)           |  |
| <input type="checkbox"/> Iron Deposits (B5)  | <input type="checkbox"/> Thin Muck Surface (C7)                                | <input type="checkbox"/> Geomorphic Position (D2)                  |  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Other (Explain in Remarks)                            | <input type="checkbox"/> Shallow Aquitard (D3)                     |  |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   |  | <input type="checkbox"/> Microtopographic Relief (D4)              |  |
|  |  | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |  |
| <b>Field Observations:</b>   |  |  |  |
| Surface Water Present? Yes _____ No <u>X</u>   | Depth (inches): _____  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____            |  |
| Water Table Present? Yes _____ No <u>X</u>   | Depth (inches): _____  |  |  |
| Saturation Present? Yes <u>X</u> No _____  | Depth (inches): <u>8</u>   |  |  |
| (includes capillary fringe)  |  |  |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |  |  |  |
| Remarks:   |  |  |  |

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

 Sampling Point: G-G-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover        | Dominant Species?   | Indicator Status  |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|--|-------------------------|---------------------|-------------------|---|-------------------|--------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------------|-----------------------|--|--|
| 1. <u>Populus deltoides</u>                          | <u>10</u>               | <u>Yes</u>          | <u>FAC</u>        | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>          </u></td> <td>x 1 = <u>          </u></td> </tr> <tr> <td>FACW species <u>          </u></td> <td>x 2 = <u>          </u></td> </tr> <tr> <td>FAC species <u>          </u></td> <td>x 3 = <u>          </u></td> </tr> <tr> <td>FACU species <u>          </u></td> <td>x 4 = <u>          </u></td> </tr> <tr> <td>UPL species <u>          </u></td> <td>x 5 = <u>          </u></td> </tr> <tr> <td>Column Totals: <u>          </u> (A)</td> <td><u>          </u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>          </u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>          </u> | x 1 = <u>          </u> | FACW species <u>          </u> | x 2 = <u>          </u> | FAC species <u>          </u> | x 3 = <u>          </u> | FACU species <u>          </u> | x 4 = <u>          </u> | UPL species <u>          </u> | x 5 = <u>          </u> | Column Totals: <u>          </u> (A) | <u>          </u> (B) | Prevalence Index = B/A = <u>          </u> |  |
| Total % Cover of:                                    | Multiply by:            |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| OBL species <u>          </u>                        | x 1 = <u>          </u> |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACW species <u>          </u>                       | x 2 = <u>          </u> |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FAC species <u>          </u>                        | x 3 = <u>          </u> |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACU species <u>          </u>                       | x 4 = <u>          </u> |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| UPL species <u>          </u>                        | x 5 = <u>          </u> |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Column Totals: <u>          </u> (A)                 | <u>          </u> (B)   |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Prevalence Index = B/A = <u>          </u>           |                         |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  | <u>10</u>               | <u>=Total Cover</u> |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                         |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  | <u>          </u>       | <u>=Total Cover</u> |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                         |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>Typha latifolia</u>                            | <u>50</u>               | <u>Yes</u>          | <u>OBL</u>        | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>          </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Solidago gigantea</u>                          | <u>20</u>               | <u>Yes</u>          | <u>FACW</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>Symphyotrichum novae-angliae</u>               | <u>15</u>               | <u>No</u>           | <u>FACW</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>Lythrum salicaria</u>                          | <u>10</u>               | <u>No</u>           | <u>OBL</u>        |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>Melilotus officinalis</u>                      | <u>10</u>               | <u>No</u>           | <u>FACU</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>Solidago altissima</u>                         | <u>10</u>               | <u>No</u>           | <u>FACU</u>       |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 8. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 9. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 10. <u>                                  </u>        | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 11. <u>                                  </u>        | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 12. <u>                                  </u>        | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  | <u>115</u>              | <u>=Total Cover</u> |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                         |                     |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>         | <u>          </u>       | <u>          </u>   | <u>          </u> |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  | <u>          </u>       | <u>=Total Cover</u> |                   |   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |

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

## SOIL

Sampling Point: G-G-Wet

[illegible]





**Wetland G-G- View facing North**



**Wetland G-G- View facing South**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-G-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Shoulders Local relief (concave, convex, none):  Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40°,34',14,07"N Long: 73°,25',16.24"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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-G-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover    | Dominant Species?   | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|--|---------------------|---------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. <u>Populus deltoides</u>                          | <u>15</u>           | <u>Yes</u>          | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | <u>15</u>           | <u>=Total Cover</u> |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:        |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____                                    | x 1 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____                                   | x 2 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____                                    | x 3 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____                                   | x 4 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____                                    | x 5 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____                                 | (A) _____ (B) _____ |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____                       |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | <u>=Total Cover</u> |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Solidago altissima</u>                         | <u>25</u>           | <u>Yes</u>          | <u>FACU</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>_____</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Asclepias syriaca</u>                          | <u>15</u>           | <u>Yes</u>          | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Melilotus officinalis</u>                      | <u>15</u>           | <u>Yes</u>          | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. <u>Daucus carota</u>                              | <u>5</u>            | <u>No</u>           | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. <u>Equisetum arvense</u>                          | <u>5</u>            | <u>No</u>           | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. <u>Echinochloa crus-galli</u>                     | <u>15</u>           | <u>Yes</u>          | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 8. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 9. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 10. _____  | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 11. _____  | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 12. _____  | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | <u>80</u>           | <u>=Total Cover</u> |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Parthenocissus quinquefolia</u>                | <u>5</u>            | <u>Yes</u>          | <u>FACU</u>      | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | <u>5</u>            | <u>=Total Cover</u> |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

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

## SOIL

Sampling Point: G-G-Up

[illegible]





**Upland G-G - View facing East**



**Upland G-G - View facing West**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-F-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Drainage ditch Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40° ,33',35.24"N Long: 73° ,24',28.02"W Datum:   
 Soil Map Unit Name: Sapristis NWI classification: PEM (wet meadow)  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |   |
|--|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><u></u> Surface Water (A1) <u></u> Water-Stained Leaves (B9)<br><u></u> High Water Table (A2) <u></u> Aquatic Fauna (B13)<br><u>X</u> Saturation (A3) <u></u> Marl Deposits (B15)<br><u></u> Water Marks (B1) <u></u> Hydrogen Sulfide Odor (C1)<br><u></u> Sediment Deposits (B2) <u></u> Oxidized Rhizospheres on Living Roots (C3)<br><u></u> Drift Deposits (B3) <u></u> Presence of Reduced Iron (C4)<br><u></u> Algal Mat or Crust (B4) <u></u> Recent Iron Reduction in Tilled Soils (C6)<br><u></u> Iron Deposits (B5) <u></u> Thin Muck Surface (C7)<br><u></u> Inundation Visible on Aerial Imagery (B7) <u></u> Other (Explain in Remarks)<br><u></u> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><u></u> Surface Soil Cracks (B6)<br><u>X</u> Drainage Patterns (B10)<br><u></u> Moss Trim Lines (B16)<br><u></u> Dry-Season Water Table (C2)<br><u></u> Crayfish Burrows (C8)<br><u></u> Saturation Visible on Aerial Imagery (C9)<br><u></u> Stunted or Stressed Plants (D1)<br><u></u> Geomorphic Position (D2)<br><u></u> Shallow Aquitard (D3)<br><u></u> Microtopographic Relief (D4)<br><u>X</u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>6</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |   |
| Remarks:   |  |   |

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

 Sampling Point: G-F-Wet

| Tree Stratum (Plot size: <u>30'</u> ) | Absolute % Cover    | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|---------------------------------------|---------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. _____                              | _____               | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>4</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____                              | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____                              | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____                              | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____                              | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____                              | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____                              | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                     | Multiply by:        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____                     | x 1 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____                    | x 2 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____                     | x 3 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____                    | x 4 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____                     | x 5 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____                  | (A) _____ (B) _____ |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____        |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  | <b>Hydrophytic Vegetation</b><br>Present?      Yes <u>X</u> No _____  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| =Total Cover                          |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

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

## SOIL

Sampling Point: G-F-Wet

[illegible]





**Wetland G-F- View facing Northeast**



**Wetland G-F- View from Southeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-F-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Drainage ditch/ meadow Local relief (concave, convex, none):  Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40° ,33',35.24"N Long: 73° ,24',28.02"W Datum:   
 Soil Map Unit Name: Saprists 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-F-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|----------------------|----------------|-----------------------|-----------------|-----------------------|-----------------|------------------------|------------------|----------------------|----------------|------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>65</u></td> <td>x 4 = <u>260</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>95</u> (A)</td> <td><u>345</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.63</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>5</u> | x 2 = <u>10</u> | FAC species <u>25</u> | x 3 = <u>75</u> | FACU species <u>65</u> | x 4 = <u>260</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>95</u> (A) | <u>345</u> (B) | Prevalence Index = B/A = <u>3.63</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| FACW species <u>5</u>                                | x 2 = <u>10</u>  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| FAC species <u>25</u>                                | x 3 = <u>75</u>  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| FACU species <u>65</u>                               | x 4 = <u>260</u> |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| UPL species <u>0</u>                                 | x 5 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| Column Totals: <u>95</u> (A)                         | <u>345</u> (B)   |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| Prevalence Index = B/A = <u>3.63</u>                 |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 1. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 1. <u>Solidago altissima</u>                         | <u>50</u>        | <u>Yes</u>        | <u>FACU</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 2. <u>Melilotus officinalis</u>                      | <u>15</u>        | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 3. <u>Echinochloa crus-galli</u>                     | <u>25</u>        | <u>Yes</u>        | <u>FAC</u>       |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 4. <u>Phragmites australis</u>                       | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| <u>95</u> =Total Cover                               |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 1. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                       |                 |                       |                 |                        |                  |                      |                |                              |                |                                      |  |

**Definitions of Vegetation Strata:**  
  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
  
**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?**      Yes             No X

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

## SOIL

Sampling Point: G-F-Up

[illegible]





**Upland G-F- View facing North**



**Upland G-F- View facing North**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
Applicant/Owner: CHPE State: NY Sampling Point: G-E-Wet  
Investigator(s): KW, KS Section, Township, Range: Whitehall  
Landform (hillside, terrace, etc.): Footslope Local relief (concave, convex, none): Concave Slope %: 0  
Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'06.63"N Long: 73°24'51.72"W Datum: \_\_\_\_\_  
Soil Map Unit Name: Kingsbury Silty Clay NWI classification: PEM/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 Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
|---|---------------------------------|--------------|----------|----------------------|--------------|----------|----------------------------|--------------|----------|---|----------------------------|--|--|--|---|--|
| <table style="width: 100%;"><tr><td style="width: 30%;">Hydrophytic Vegetation Present?</td><td style="width: 30%;">Yes <u>X</u></td><td style="width: 30%;">No _____</td></tr><tr><td>Hydric Soil Present?</td><td>Yes <u>X</u></td><td>No _____</td></tr><tr><td>Wetland Hydrology Present?</td><td>Yes <u>X</u></td><td>No _____</td></tr></table> | Hydrophytic Vegetation Present? | Yes <u>X</u> | No _____ | Hydric Soil Present? | Yes <u>X</u> | No _____ | Wetland Hydrology Present? | Yes <u>X</u> | No _____ | <table style="width: 100%;"><tr><td colspan="2"><b>Is the Sampled Area</b></td></tr><tr><td colspan="2"><b>within a Wetland?</b> Yes <u>X</u> No _____</td></tr><tr><td colspan="2">If yes, optional Wetland Site ID: _____</td></tr></table> | <b>Is the Sampled Area</b> |  | <b>within a Wetland?</b> Yes <u>X</u> No _____ |  | If yes, optional Wetland Site ID: _____ |  |
| Hydrophytic Vegetation Present?   | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Hydric Soil Present?  | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Wetland Hydrology Present?  | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| <b>Is the Sampled Area</b>  |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| <b>within a Wetland?</b> Yes <u>X</u> No _____  |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| If yes, optional Wetland Site ID: _____   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Remarks: (Explain alternative procedures here or in a separate report.)   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |

### HYDROLOGY

|  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
|--|--|-----------------------------|------------------------------------|-----------------------------|---------------------------|-----------------------|---------------------------|------------------------|----------------------------------|------------------------------|--|---------------------------|-------------------------------------|---|--|--------------------------|------------------------------|---|----------------------------------|---|--|---|--------------------------------|----------------------------------|-----------------------------|-----------------------------------|-----------------------------|---|---------------------------------------|--------------------------------|-----------------------------|------------------------------------|--------------------------------|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><table style="width: 100%;"><tr><td><u>X</u> Surface Water (A1)</td><td><u>X</u> Water-Stained Leaves (B9)</td></tr><tr><td>_____ High Water Table (A2)</td><td>_____ Aquatic Fauna (B13)</td></tr><tr><td>_____ Saturation (A3)</td><td>_____ Marl Deposits (B15)</td></tr><tr><td>_____ Water Marks (B1)</td><td>_____ Hydrogen Sulfide Odor (C1)</td></tr><tr><td>_____ Sediment Deposits (B2)</td><td>_____ Oxidized Rhizospheres on Living Roots (C3)</td></tr><tr><td>_____ Drift Deposits (B3)</td><td>_____ Presence of Reduced Iron (C4)</td></tr><tr><td>_____ Algal Mat or Crust (B4)</td><td>_____ Recent Iron Reduction in Tilled Soils (C6)</td></tr><tr><td>_____ Iron Deposits (B5)</td><td>_____ Thin Muck Surface (C7)</td></tr><tr><td>_____ Inundation Visible on Aerial Imagery (B7)</td><td>_____ Other (Explain in Remarks)</td></tr><tr><td>_____ Sparsely Vegetated Concave Surface (B8)</td><td></td></tr></table> |  | <u>X</u> Surface Water (A1) | <u>X</u> Water-Stained Leaves (B9) | _____ High Water Table (A2) | _____ Aquatic Fauna (B13) | _____ Saturation (A3) | _____ Marl Deposits (B15) | _____ Water Marks (B1) | _____ Hydrogen Sulfide Odor (C1) | _____ Sediment Deposits (B2) | _____ Oxidized Rhizospheres on Living Roots (C3) | _____ Drift Deposits (B3) | _____ Presence of Reduced Iron (C4) | _____ Algal Mat or Crust (B4)   | _____ Recent Iron Reduction in Tilled Soils (C6) | _____ Iron Deposits (B5) | _____ Thin Muck Surface (C7) | _____ Inundation Visible on Aerial Imagery (B7) | _____ Other (Explain in Remarks) | _____ Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><table style="width: 100%;"><tr><td>_____ Surface Soil Cracks (B6)</td></tr><tr><td><u>X</u> Drainage Patterns (B10)</td></tr><tr><td>_____ Moss Trim Lines (B16)</td></tr><tr><td>_____ Dry-Season Water Table (C2)</td></tr><tr><td>_____ Crayfish Burrows (C8)</td></tr><tr><td>_____ Saturation Visible on Aerial Imagery (C9)</td></tr><tr><td>_____ Stunted or Stressed Plants (D1)</td></tr><tr><td>_____ Geomorphic Position (D2)</td></tr><tr><td>_____ Shallow Aquitard (D3)</td></tr><tr><td>_____ Microtopographic Relief (D4)</td></tr><tr><td><u>X</u> FAC-Neutral Test (D5)</td></tr></table> | _____ Surface Soil Cracks (B6) | <u>X</u> Drainage Patterns (B10) | _____ Moss Trim Lines (B16) | _____ Dry-Season Water Table (C2) | _____ Crayfish Burrows (C8) | _____ Saturation Visible on Aerial Imagery (C9) | _____ Stunted or Stressed Plants (D1) | _____ Geomorphic Position (D2) | _____ Shallow Aquitard (D3) | _____ Microtopographic Relief (D4) | <u>X</u> FAC-Neutral Test (D5) |
| <u>X</u> Surface Water (A1)  | <u>X</u> Water-Stained Leaves (B9)               |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ High Water Table (A2)  | _____ Aquatic Fauna (B13)                        |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Saturation (A3)  | _____ Marl Deposits (B15)                        |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Water Marks (B1)   | _____ Hydrogen Sulfide Odor (C1)                 |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Sediment Deposits (B2)   | _____ Oxidized Rhizospheres on Living Roots (C3) |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Drift Deposits (B3)  | _____ Presence of Reduced Iron (C4)              |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Algal Mat or Crust (B4)  | _____ Recent Iron Reduction in Tilled Soils (C6) |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Iron Deposits (B5)   | _____ Thin Muck Surface (C7)                     |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Inundation Visible on Aerial Imagery (B7)  | _____ Other (Explain in Remarks)                 |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Sparsely Vegetated Concave Surface (B8)  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Surface Soil Cracks (B6)   |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <u>X</u> Drainage Patterns (B10)   |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Moss Trim Lines (B16)  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Dry-Season Water Table (C2)  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Crayfish Burrows (C8)  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Saturation Visible on Aerial Imagery (C9)  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Stunted or Stressed Plants (D1)  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Geomorphic Position (D2)   |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Shallow Aquitard (D3)  |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Microtopographic Relief (D4)   |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <u>X</u> FAC-Neutral Test (D5)   |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <b>Field Observations:</b><br><table style="width: 100%;"><tr><td>Surface Water Present?</td><td>Yes <u>X</u></td><td>No _____</td><td>Depth (inches): <u>4</u></td></tr><tr><td>Water Table Present?</td><td>Yes _____</td><td>No <u>X</u></td><td>Depth (inches): _____</td></tr><tr><td>Saturation Present?</td><td>Yes <u>X</u></td><td>No _____</td><td>Depth (inches): <u>2</u></td></tr></table> <p>(includes capillary fringe)</p>   |  | Surface Water Present?      | Yes <u>X</u>                       | No _____                    | Depth (inches): <u>4</u>  | Water Table Present?  | Yes _____                 | No <u>X</u>            | Depth (inches): _____            | Saturation Present?          | Yes <u>X</u>                                     | No _____                  | Depth (inches): <u>2</u>            | <table style="width: 100%;"><tr><td><b>Wetland Hydrology Present?</b></td><td>Yes <u>X</u></td><td>No _____</td></tr></table> | <b>Wetland Hydrology Present?</b>                | Yes <u>X</u>             | No _____                     |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Surface Water Present?   | Yes <u>X</u>                                     | No _____                    | Depth (inches): <u>4</u>           |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Water Table Present?   | Yes _____  | No <u>X</u>                 | Depth (inches): _____              |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Saturation Present?  | Yes <u>X</u>                                     | No _____                    | Depth (inches): <u>2</u>           |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <b>Wetland Hydrology Present?</b>  | Yes <u>X</u>                                     | No _____                    |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Remarks:   |  |                             |                                    |                             |                           |                       |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |

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

 Sampling Point: G-E-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover    | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|--|---------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. <u>Ulmus americana</u>                            | <u>15</u>           | <u>Yes</u>        | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>8</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>87.5%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Pinus strobus</u>                              | <u>10</u>           | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Fraxinus americana</u>                         | <u>3</u>            | <u>No</u>         | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. <u>Carpinus caroliniana</u>                       | <u>3</u>            | <u>No</u>         | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <u>31</u>  |                     | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____                                    | x 1 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____                                   | x 2 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____                                    | x 3 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____                                   | x 4 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____                                    | x 5 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____                                 | (A) _____ (B) _____ |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Alnus incana</u>                               | <u>10</u>           | <u>Yes</u>        | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Frangula alnus</u>                             | <u>10</u>           | <u>Yes</u>        | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Rhus typhina</u>                               | <u>3</u>            | <u>No</u>         | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. <u>Hamamelis virginiana</u>                       | <u>3</u>            | <u>No</u>         | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. <u>Alnus incana</u>                               | <u>10</u>           | <u>Yes</u>        | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____             | _____            | <b>Hydrophytic Vegetation Indicators:</b><br><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <u>36</u>  |                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Typha latifolia</u>                            | <u>10</u>           | <u>Yes</u>        | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Sagittaria latifolia</u>                       | <u>3</u>            | <u>No</u>         | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Leersia oryzoides</u>                          | <u>5</u>            | <u>Yes</u>        | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. <u>Phalaris arundinacea</u>                       | <u>5</u>            | <u>Yes</u>        | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 8. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 9. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 10. _____  | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 11. _____  | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 12. _____  | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <u>23</u>  |                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____   | _____               | _____             | _____            | <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| _____  |                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

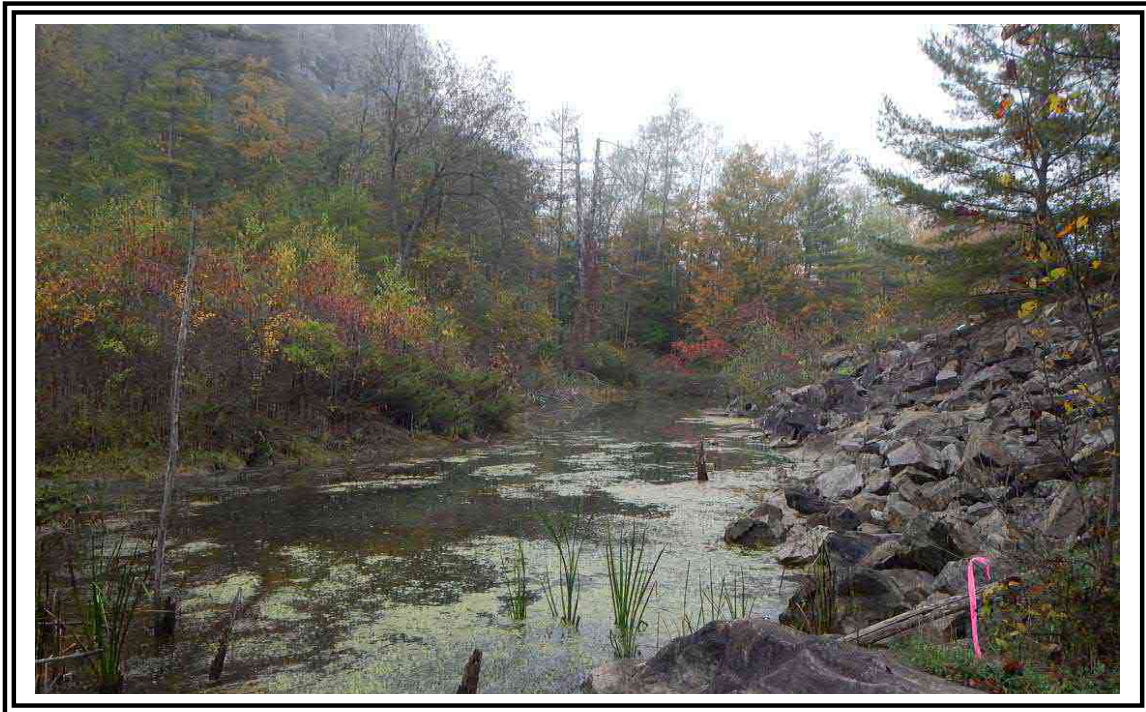
Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: G-E-Wet

[illegible]





**Wetland G-E- View facing East**



**Wetland G-E- View facing North**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/07/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-E-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Footslope Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°34'06.63"N Long: 73°24'51.72"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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-E-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |
|--|------------------|-------------------|------------------|---|
| 1. <u><i>Tilia americana</i></u>                     | <u>3</u>         | <u>Yes</u>        | <u>FACU</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)  |
| 2. <u><i>Tsuga canadensis</i></u>                    | <u>3</u>         | <u>Yes</u>        | <u>FACU</u>      |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            |   |
| 7. _____   | _____            | _____             | _____            |   |
|  |                  | <u>6</u>          | =Total Cover     | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br><br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____   |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |
| 1. <u><i>Hamamelis virginiana</i></u>                | <u>3</u>         | <u>No</u>         | <u>FACU</u>      |   |
| 2. <u><i>Rhus typhina</i></u>                        | <u>20</u>        | <u>Yes</u>        | <u>UPL</u>       |   |
| 3. <u><i>Rubus allegheniensis</i></u>                | <u>20</u>        | <u>Yes</u>        | <u>UPL</u>       |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>_____</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. _____   | _____            | _____             | _____            |   |
|  |                  | <u>43</u>         | =Total Cover     |   |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |
| 1. <u><i>Polystichum acrostichoides</i></u>          | <u>15</u>        | <u>Yes</u>        | <u>FACU</u>      |   |
| 2. <u><i>Luzula multiflora</i></u>                   | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |
| 3. <u><i>Solidago altissima</i></u>                  | <u>25</u>        | <u>Yes</u>        | <u>FACU</u>      |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                |
| 7. _____   | _____            | _____             | _____            |   |
| 8. _____   | _____            | _____             | _____            |   |
| 9. _____   | _____            | _____             | _____            |   |
| 10. _____  | _____            | _____             | _____            |   |
| 11. _____  | _____            | _____             | _____            |   |
| 12. _____  | _____            | _____             | _____            |   |
|  |                  | <u>50</u>         | =Total Cover     | <b>Hydrophytic Vegetation Present?</b> Yes <u>_____</u> No <u>X</u>   |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |   |
| 1. _____   | _____            | _____             | _____            |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
|  |                  | _____             | =Total Cover     |   |

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

## SOIL

Sampling Point: G-E-Up

[illegible]





**Upland G-E- View facing Southeast**



**Upland G-E- View facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/06/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-D-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside ditch Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°33'52.35"N Long: 73°24'23.46"W Datum:   
 Soil Map Unit Name: Vergennes Silty Clay Loam NWI classification: PEM (wet meadow)  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |   |
|--|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): <u>1</u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>2</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:<br><br><br>   |  |   |
| Remarks:<br>Mowed roadside ditch.  |  |   |

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

 Sampling Point: G-D-Wet

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____                                       | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                              | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                              | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                             | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                              | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                             | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                              | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                       | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                 |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Typha latifolia</u>                      | <u>30</u>        | <u>Yes</u>        | <u>OBL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Phragmites australis</u>                 | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Lythrum salicaria</u>                    | <u>15</u>        | <u>Yes</u>        | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. <u>Carex stricta</u>                        | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. <u>Daucus carota</u>                        | <u>5</u>         | <u>No</u>         | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____                                      | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____                                      | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____                                      | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | 75 =Total Cover   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Woody Vine Stratum (Plot size: <u>15'</u> )    |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: G-D-Wet

[illegible]





**Wetland G-D- View facing North**



**Wetland G-D- View facing Southeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/06/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-D-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside ditch Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40° ,33',35.24"N Long: 73° ,24',28.02"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Vergennes 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-D-Up

| Tree Stratum (Plot size: <u>30</u> )                 | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                                    | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                                   | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                                    | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                                   | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                                    | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                             | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3 =Total Cover                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15</u> )</b> |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Rhus typhina</u>                               | <u>3</u>         | <u>No</u>         | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3 =Total Cover                                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum (Plot size: <u>5</u> )</b>           |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Centaurea stoebe</u>                           | <u>20</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Daucus carota</u>                              | <u>25</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Lythrum salicaria</u>                          | <u>15</u>        | <u>No</u>         | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. <u>Setaria faberi</u>                             | <u>20</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. <u>Phragmites australis</u>                       | <u>10</u>        | <u>No</u>         | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 90 =Total Cover                                      |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum (Plot size: _____ )</b>        |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Vitis vinifera</u>                             | _____            | _____             | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

**Hydrophytic Vegetation Indicators:**  
1 - Rapid Test for Hydrophytic Vegetation  
2 - Dominance Test is >50%  
3 - Prevalence Index is ≤3.0<sup>1</sup>  
4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**  
  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
  
**Herb** – All herbaceous (non-woody) plants, 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             No X

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



## SOIL

Sampling Point: G-D-Up

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |   |                |   |                   |                  |              |         |
|---|---------------|---|----------------|---|-------------------|------------------|--------------|---------|
| Depth<br>(inches)   | Matrix        |   | Redox Features |   |                   |                  | Texture      | Remarks |
|   | Color (moist) | % | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |              |         |
| 0-12  | 7.5YR 4/3     |   |                |   |                   |                  | Loamy/Clayey |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |
|   |               |   |                |   |                   |                  |              |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

|  |  |  |   |  |  |   |  |  |  |  |  |
|--|--|--|---|--|--|---|--|--|--|--|--|
| <b>Hydric Soil Indicators:</b>                             |  |  |   |  |  | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>                   |  |  |  |  |  |
| <input type="checkbox"/> Histosol (A1)                     |  |  | <input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR R,</b>       |  |  | <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )       |  |  |  |  |  |
| <input type="checkbox"/> Histic Epipedon (A2)              |  |  | <b>MLRA 149B</b> )  |  |  | <input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )     |  |  |  |  |  |
| <input type="checkbox"/> Black Histic (A3)                 |  |  | <input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> ) |  |  | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )  |  |  |  |  |  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             |  |  | <input type="checkbox"/> High Chroma Sands (S11) ( <b>LRR K, L</b> )        |  |  | <input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )     |  |  |  |  |  |
| <input type="checkbox"/> Stratified Layers (A5)            |  |  | <input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )       |  |  | <input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L</b> )           |  |  |  |  |  |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) |  |  | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                           |  |  | <input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )   |  |  |  |  |  |
| <input type="checkbox"/> Thick Dark Surface (A12)          |  |  | <input type="checkbox"/> Depleted Matrix (F3)                               |  |  | <input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> ) |  |  |  |  |  |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          |  |  | <input type="checkbox"/> Redox Dark Surface (F6)                            |  |  | <input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )   |  |  |  |  |  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |  |  | <input type="checkbox"/> Depleted Dark Surface (F7)                         |  |  | <input type="checkbox"/> Red Parent Material (F21)                            |  |  |  |  |  |
| <input type="checkbox"/> Sandy Redox (S5)                  |  |  | <input type="checkbox"/> Redox Depressions (F8)                             |  |  | <input type="checkbox"/> Very Shallow Dark Surface (F22)                      |  |  |  |  |  |
| <input type="checkbox"/> Stripped Matrix (S6)              |  |  | <input type="checkbox"/> Marl (F10) ( <b>LRR K, L</b> )                     |  |  | <input type="checkbox"/> Other (Explain in Remarks)                           |  |  |  |  |  |
| <input type="checkbox"/> Dark Surface (S7)                 |  |  |   |  |  |   |  |  |  |  |  |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

|   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| <b>Restrictive Layer (if observed):</b> |  |  |  |  |  |  |  |
| Type: _____                             |  |  |  |  |  |  |  |
| Depth (inches): _____                   |  |  |  |  |  |  |  |
|   |  |  |  | <b>Hydric Soil Present?      Yes _____ No ____X_____</b> |  |  |  |

Remarks:  
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,  
Version 7.0, 2015 Errata. ([http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_051293.docx](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx))





**Upland G-D- View facing North**



**Upland G-D- View facing Southeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - CP Rail - Whitehall to Comstock Section City/County: Washington Sampling Date: 10/06/21  
Applicant/Owner: CHPE State: NY Sampling Point: G-C-Wet  
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°33'44.12"N Long: 73°24'22.94"W Datum: \_\_\_\_\_  
Soil Map Unit Name: Saprists and Vergennes Silty Clay Loam 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

### HYDROLOGY

|  |  |   |  |
|--|--|---|--|
| <b>Wetland Hydrology Indicators:</b>   |  | <u>Secondary Indicators (minimum of two required)</u>   |  |
| <u>Primary Indicators (minimum of one is required; check all that apply)</u>                               |  |   |  |
| <u>X</u> Surface Water (A1)  | <u>X</u> Water-Stained Leaves (B9)                       | <u>      </u> Surface Soil Cracks (B6)                  |  |
| <u>X</u> High Water Table (A2)   | <u>      </u> Aquatic Fauna (B13)                        | <u>      </u> Drainage Patterns (B10)                   |  |
| <u>      </u> Saturation (A3)  | <u>      </u> Marl Deposits (B15)                        | <u>      </u> Moss Trim Lines (B16)                     |  |
| <u>      </u> Water Marks (B1)   | <u>      </u> Hydrogen Sulfide Odor (C1)                 | <u>      </u> Dry-Season Water Table (C2)               |  |
| <u>      </u> Sediment Deposits (B2)   | <u>      </u> Oxidized Rhizospheres on Living Roots (C3) | <u>      </u> Crayfish Burrows (C8)                     |  |
| <u>      </u> Drift Deposits (B3)  | <u>      </u> Presence of Reduced Iron (C4)              | <u>      </u> Saturation Visible on Aerial Imagery (C9) |  |
| <u>      </u> Algal Mat or Crust (B4)  | <u>      </u> Recent Iron Reduction in Tilled Soils (C6) | <u>      </u> Stunted or Stressed Plants (D1)           |  |
| <u>      </u> Iron Deposits (B5)   | <u>      </u> Thin Muck Surface (C7)                     | <u>      </u> Geomorphic Position (D2)                  |  |
| <u>      </u> Inundation Visible on Aerial Imagery (B7)  | <u>      </u> Other (Explain in Remarks)                 | <u>      </u> Shallow Aquitard (D3)                     |  |
| <u>      </u> Sparsely Vegetated Concave Surface (B8)  |  | <u>      </u> Microtopographic Relief (D4)              |  |
|  |  | <u>X</u> FAC-Neutral Test (D5)                          |  |
| <b>Field Observations:</b>   |  |   |  |
| Surface Water Present? Yes <u>X</u> No _____   | Depth (inches): <u>2</u>                                 | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____ |  |
| Water Table Present? Yes <u>X</u> No _____   | Depth (inches): <u>0</u>                                 |   |  |
| Saturation Present? Yes <u>X</u> No _____  | Depth (inches): <u>1</u>                                 |   |  |
| (includes capillary fringe)  |  |   |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |  |   |  |
| Remarks:   |  |   |  |

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

 Sampling Point: G-C-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover    | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|--|---------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. <u>Ulmus americana</u>                            | <u>10</u>           | <u>Yes</u>        | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Populus deltoides</u>                          | <u>10</u>           | <u>Yes</u>        | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | <u>20</u>         | =Total Cover     | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____                                    | x 1 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____                                   | x 2 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____                                    | x 3 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____                                   | x 4 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____                                    | x 5 = _____         |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____                                 | (A) _____ (B) _____ |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____                       |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Frangula alnus</u>                             | <u>10</u>           | <u>Yes</u>        | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Cornus amomum</u>                              | <u>5</u>            | <u>No</u>         | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Ilex verticillata</u>                          | <u>20</u>           | <u>Yes</u>        | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. <u>Lonicera tatarica</u>                          | <u>5</u>            | <u>No</u>         | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____             | _____            | <b>Hydrophytic Vegetation Indicators:</b><br><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | <u>40</u>         | =Total Cover     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Typha latifolia</u>                            | <u>50</u>           | <u>Yes</u>        | <u>OBL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Impatiens capensis</u>                         | <u>10</u>           | <u>No</u>         | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Onoclea sensibilis</u>                         | <u>5</u>            | <u>No</u>         | <u>FACW</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 8. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 9. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 10. _____  | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 11. _____  | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 12. _____  | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | <u>65</u>         | =Total Cover     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. _____   | _____               | _____             | _____            | <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  |                     | _____             | =Total Cover     |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

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

## SOIL

Sampling Point G-C-Wet

[illegible]





**Wetland G-C- View facing East**



**Wetland G-C- View facing North**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/06/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-C-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°33'44.17"N Long: 73°24'22.94"W Datum:   
 Soil Map Unit Name: Sapristis and Vergennes Silty 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |  |
|--|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><u></u> Surface Water (A1) <u></u> Water-Stained Leaves (B9)<br><u></u> High Water Table (A2) <u></u> Aquatic Fauna (B13)<br><u></u> Saturation (A3) <u></u> Marl Deposits (B15)<br><u></u> Water Marks (B1) <u></u> Hydrogen Sulfide Odor (C1)<br><u></u> Sediment Deposits (B2) <u></u> Oxidized Rhizospheres on Living Roots (C3)<br><u></u> Drift Deposits (B3) <u></u> Presence of Reduced Iron (C4)<br><u></u> Algal Mat or Crust (B4) <u></u> Recent Iron Reduction in Tilled Soils (C6)<br><u></u> Iron Deposits (B5) <u></u> Thin Muck Surface (C7)<br><u></u> Inundation Visible on Aerial Imagery (B7) <u></u> Other (Explain in Remarks)<br><u>?</u> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><u></u> Surface Soil Cracks (B6)<br><u></u> Drainage Patterns (B10)<br><u></u> Moss Trim Lines (B16)<br><u></u> Dry-Season Water Table (C2)<br><u></u> Crayfish Burrows (C8)<br><u></u> Saturation Visible on Aerial Imagery (C9)<br><u></u> Stunted or Stressed Plants (D1)<br><u></u> Geomorphic Position (D2)<br><u>?</u> Shallow Aquitard (D3)<br><u></u> Microtopographic Relief (D4)<br><u></u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u></u> No <u></u> Depth (inches): <u></u><br>Water Table Present? Yes <u></u> No <u></u> Depth (inches): <u></u><br>Saturation Present? Yes <u></u> No <u></u> Depth (inches): <u></u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u></u> No <u>X</u>  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |  |
| Remarks:<br>The wetland boundary went to the immediate toe of slope for the highway row. No upland hole possible due to the large boulders and rip-rap on the hillside. The upland was dominated by small trees and shrubs with little to no herb species present.   |  |  |

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

 Sampling Point: G-C-Up

| Tree Stratum (Plot size: <u>30</u> )               | Absolute % Cover        | Dominant Species? | Indicator Status |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|--|-------------------------|-------------------|------------------|--|-------------------|--------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------------|-----------------------|--|--|
| 1. <u>Fraxinus americana</u>                       | 10                      | Yes               | FACU             | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>          </u></td> <td>x 1 = <u>          </u></td> </tr> <tr> <td>FACW species <u>          </u></td> <td>x 2 = <u>          </u></td> </tr> <tr> <td>FAC species <u>          </u></td> <td>x 3 = <u>          </u></td> </tr> <tr> <td>FACU species <u>          </u></td> <td>x 4 = <u>          </u></td> </tr> <tr> <td>UPL species <u>          </u></td> <td>x 5 = <u>          </u></td> </tr> <tr> <td>Column Totals: <u>          </u> (A)</td> <td><u>          </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>          </u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>          </u> | x 1 = <u>          </u> | FACW species <u>          </u> | x 2 = <u>          </u> | FAC species <u>          </u> | x 3 = <u>          </u> | FACU species <u>          </u> | x 4 = <u>          </u> | UPL species <u>          </u> | x 5 = <u>          </u> | Column Totals: <u>          </u> (A) | <u>          </u> (B) | Prevalence Index = B/A = <u>          </u> |  |
| Total % Cover of:                                  | Multiply by:            |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| OBL species <u>          </u>                      | x 1 = <u>          </u> |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACW species <u>          </u>                     | x 2 = <u>          </u> |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FAC species <u>          </u>                      | x 3 = <u>          </u> |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACU species <u>          </u>                     | x 4 = <u>          </u> |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| UPL species <u>          </u>                      | x 5 = <u>          </u> |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Column Totals: <u>          </u> (A)               | <u>          </u> (B)   |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Prevalence Index = B/A = <u>          </u>         |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Betula populifolia</u>                       | 10                      | Yes               | FAC              |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>Juniperus communis</u>                       | 5                       | Yes               | FACU             |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  | 25                      | =Total Cover      |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>          </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>          </u> 2 - Dominance Test is >50%<br><u>          </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>          </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>          </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Sapling/Shrub Stratum (Plot size: <u>15</u> )      |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>Lonicera tatarica</u>                        | 10                      | Yes               | FACU             |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Rhus typhina</u>                             | 15                      | Yes               | UPL              |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>Rhamnus cathartica</u>                       | 5                       | No                | FAC              |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  | 30                      | =Total Cover      |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>          </u> No <u>X</u>   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Herb Stratum (Plot size: <u>5</u> )                |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 8. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 9. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 10. <u>                                  </u>      |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 11. <u>                                  </u>      |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 12. <u>                                  </u>      |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  |                         | =Total Cover      |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Woody Vine Stratum (Plot size: <u>          </u> ) |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>       |                         |                   |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|  |                         | =Total Cover      |                  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |

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

## SOIL

Sampling Point: G-C-Up

[illegible]





**Upland G-C- View facing South**



**Upland G-C- View facing North**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/06/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-B-Wet  
 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 142 Lat: 40°33,35.24N Long: 73°24,28.02W Datum:   
 Soil Map Unit Name: Sapristis and Vergennes Silty Clay Loam NWI classification: PFO/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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |  |   |
|---|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><u></u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9)<br><u></u> High Water Table (A2) <u></u> Aquatic Fauna (B13)<br><u></u> Saturation (A3) <u></u> Marl Deposits (B15)<br><u>X</u> Water Marks (B1) <u></u> Hydrogen Sulfide Odor (C1)<br><u></u> Sediment Deposits (B2) <u></u> Oxidized Rhizospheres on Living Roots (C3)<br><u></u> Drift Deposits (B3) <u></u> Presence of Reduced Iron (C4)<br><u></u> Algal Mat or Crust (B4) <u></u> Recent Iron Reduction in Tilled Soils (C6)<br><u></u> Iron Deposits (B5) <u></u> Thin Muck Surface (C7)<br><u></u> Inundation Visible on Aerial Imagery (B7) <u></u> Other (Explain in Remarks)<br><u></u> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><u></u> Surface Soil Cracks (B6)<br><u>X</u> Drainage Patterns (B10)<br><u></u> Moss Trim Lines (B16)<br><u></u> Dry-Season Water Table (C2)<br><u></u> Crayfish Burrows (C8)<br><u></u> Saturation Visible on Aerial Imagery (C9)<br><u></u> Stunted or Stressed Plants (D1)<br><u></u> Geomorphic Position (D2)<br><u></u> Shallow Aquitard (D3)<br><u></u> Microtopographic Relief (D4)<br><u>X</u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>5</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |   |
| Remarks:  |  |   |

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

 Sampling Point: G-B-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |
|--|------------------|-------------------|------------------|--|
| 1. <u>Ulmus americana</u>                            | <u>75</u>        | <u>Yes</u>        | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)  |
| 2. <u>Salix nigra</u>                                | <u>25</u>        | <u>Yes</u>        | <u>OBL</u>       |  |
| 3. <u>Acer negundo</u>                               | <u>10</u>        | <u>No</u>         | <u>FAC</u>       |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| <u>110</u>   |                  | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |
| 1. <u>Lonicera tatarica</u>                          | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |  |
| 2. <u>Frangula alnus</u>                             | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| <u>20</u>  |                  | =Total Cover      |                  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |
| 1. <u>Lythrum salicaria</u>                          | <u>20</u>        | <u>Yes</u>        | <u>OBL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2. <u>Impatiens capensis</u>                         | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Reynoutria japonica</u>                        | <u>10</u>        | <u>No</u>         | <u>FACU</u>      |  |
| 4. <u>Epilobium coloratum</u>                        | <u>10</u>        | <u>No</u>         | <u>OBL</u>       |  |
| 5. <u>Symphotrichum racemosum</u>                    | <u>15</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| 8. _____   | _____            | _____             | _____            |  |
| 9. _____   | _____            | _____             | _____            |  |
| 10. _____  | _____            | _____             | _____            |  |
| 11. _____  | _____            | _____             | _____            |  |
| 12. _____  | _____            | _____             | _____            |  |
| <u>75</u>  |                  | =Total Cover      |                  |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |  |
| 1. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                   |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| <u>      </u>  |                  | =Total Cover      |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>   |

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

## SOIL

Sampling Point: G-B-Wet

[illegible]





**Wetland G-B- View facing Northeast**



**Wetland G-B- View facing Northeast**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/06/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-B-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40° ,33',35.24"N Long: 73° ,24',28.02"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Sapristis 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |  |   |
|---|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br>_____ Surface Water (A1) _____ Water-Stained Leaves (B9)<br>_____ High Water Table (A2) _____ Aquatic Fauna (B13)<br>_____ Saturation (A3) _____ Marl Deposits (B15)<br>_____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1)<br>_____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3)<br>_____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4)<br>_____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6)<br>_____ Iron Deposits (B5) _____ Thin Muck Surface (C7)<br>_____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)<br>_____ Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br>_____ Surface Soil Cracks (B6)<br>_____ Drainage Patterns (B10)<br>_____ Moss Trim Lines (B16)<br>_____ Dry-Season Water Table (C2)<br>_____ Crayfish Burrows (C8)<br>_____ Saturation Visible on Aerial Imagery (C9)<br>_____ Stunted or Stressed Plants (D1)<br>_____ Geomorphic Position (D2)<br>_____ Shallow Aquitard (D3)<br>_____ Microtopographic Relief (D4)<br>_____ FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes _____ No _____ Depth (inches): _____<br>Water Table Present? Yes _____ No _____ Depth (inches): _____<br>Saturation Present? Yes _____ No _____ Depth (inches): _____<br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:<br><br><br>  |  |   |
| Remarks:<br>The wetland area was within an intermittent stream that flowed into a larger wetland complex. The upland was between the roadside and the larger wetland complex that was dominated by a mature forest stand.   |  |   |

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

 Sampling Point: G-B-Up

| Tree Stratum (Plot size: <u>30</u> )                                 | Absolute % Cover | Dominant Species? | Indicator Status |   |
|--|------------------|-------------------|------------------|---|
| 1. <u>Fraxinus americana</u>   | <u>20</u>        | <u>Yes</u>        | <u>FACU</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)   |
| 2. <u>Acer negundo</u>   | <u>5</u>         | <u>No</u>         | <u>FAC</u>       |   |
| 3. <u>Populus deltoides</u>  | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            |   |
| 7. _____   | _____            | _____             | _____            |   |
|  |                  | <u>35</u>         | =Total Cover     | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____   |
| <b>Sapling/Shrub Stratum (Plot size: <u>15</u> )</b>                 |                  |                   |                  |   |
| 1. <u>Rhamnus cathartica</u>   | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
|  |                  | <u>10</u>         | =Total Cover     | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>_____</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| <b>Herb Stratum (Plot size: <u>5</u> )</b>                           |                  |                   |                  |   |
| 1. <u>Rubus sp</u>   | <u>25</u>        | <u>Yes</u>        | <u>UPL</u>       |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
|  |                  | <u>25</u>         | =Total Cover     | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                |
| <b>Woody Vine Stratum (Plot size: _____ )</b>                        |                  |                   |                  |   |
| 1. <u>Vitis vinifera</u>   | <u>10</u>        | <u>Yes</u>        | <u>UPL</u>       |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
|  |                  | <u>10</u>         | =Total Cover     |   |
| <b>Remarks:</b> (Include photo numbers here or on a separate sheet.) |                  |                   |                  |   |

## SOIL

Sampling Point: G-B-Up

[illegible]





**Upland G-B- View facing Northwest**



**Upland G-B- view facing East**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/06/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-A-Wet  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside (toeslope) Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40°33'35.24"N Long: 73°24'28.02"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Sapristis NWI classification: PFO/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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: G-A-Wet

| Tree Stratum (Plot size: <u>30'</u> )                                    | Absolute % Cover | Dominant Species? | Indicator Status |   |
|--|------------------|-------------------|------------------|---|
| 1. <u>Acer rubrum</u>  | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)   |
| 2. <u>Ulmus americana</u>  | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      |   |
| 3. <u>Populus deltoides</u>  | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |   |
| 4. <u>Fraxinus americana</u>   | <u>3</u>         | <u>No</u>         | <u>FACU</u>      |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            |   |
| 7. _____   | _____            | _____             | _____            |   |
| <u>43</u>  |                  | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____   |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>                     |                  |                   |                  |   |
| 1. <u>Frangula alnus</u>   | <u>60</u>        | <u>Yes</u>        | <u>FAC</u>       |   |
| 2. <u>Acer platanoides</u>   | <u>15</u>        | <u>Yes</u>        | <u>UPL</u>       |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| <u>75</u>  |                  | =Total Cover      |                  |   |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                               |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>  </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>  X</u> 2 - Dominance Test is >50%<br><u>  </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>  </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>  </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. <u>Impatiens capensis</u>   | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      |   |
| 2. <u>Lysimachia nummularia</u>  | <u>50</u>        | <u>Yes</u>        | <u>FACW</u>      |   |
| 3. <u>Reynoutria japonica</u>  | <u>15</u>        | <u>No</u>         | <u>FACU</u>      |   |
| 4. _____   | _____            | _____             | _____            |   |
| 5. _____   | _____            | _____             | _____            |   |
| 6. _____   | _____            | _____             | _____            |   |
| 7. _____   | _____            | _____             | _____            |   |
| 8. _____   | _____            | _____             | _____            |   |
| 9. _____   | _____            | _____             | _____            |   |
| 10. _____  | _____            | _____             | _____            |   |
| 11. _____  | _____            | _____             | _____            |   |
| 12. _____  | _____            | _____             | _____            |   |
| <u>85</u>  |                  | =Total Cover      |                  |   |
| <b>Woody Vine Stratum (Plot size: <u>30"</u>)</b>                        |                  |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |
| 1. <u>Parthenocissus quinquefolia</u>                                    | <u>3</u>         | <u>No</u>         | <u>FACU</u>      |   |
| 2. _____   | _____            | _____             | _____            |   |
| 3. _____   | _____            | _____             | _____            |   |
| 4. _____   | _____            | _____             | _____            |   |
| <u>3</u>   |                  | =Total Cover      |                  |   |
| <b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u> |                  |                   |                  |   |

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

## SOIL

Sampling Point: G-A-Wet

[illegible]





**Wetland G-A- View facing Northwest**



**Wetland G-A- View facing Northwest**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE - Route 22 - Whitehall Section City/County: Washington Sampling Date: 10/06/21  
 Applicant/Owner: CHPE State: NY Sampling Point: G-A-Up  
 Investigator(s): KW, KS Section, Township, Range: Whitehall  
 Landform (hillside, terrace, etc.): Roadside Local relief (concave, convex, none): Concave Slope %: 0  
 Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 40°33'35.24"N Long: 73°24'28.02"W Datum: \_\_\_\_\_  
 Soil Map Unit Name: Sapristis 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |  |   |
|---|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br>_____ Surface Water (A1) _____ Water-Stained Leaves (B9)<br>_____ High Water Table (A2) _____ Aquatic Fauna (B13)<br>_____ Saturation (A3) _____ Marl Deposits (B15)<br>_____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1)<br>_____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3)<br>_____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4)<br>_____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6)<br>_____ Iron Deposits (B5) _____ Thin Muck Surface (C7)<br>_____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)<br>_____ Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br>_____ Surface Soil Cracks (B6)<br>_____ Drainage Patterns (B10)<br>_____ Moss Trim Lines (B16)<br>_____ Dry-Season Water Table (C2)<br>_____ Crayfish Burrows (C8)<br>_____ Saturation Visible on Aerial Imagery (C9)<br>_____ Stunted or Stressed Plants (D1)<br>_____ Geomorphic Position (D2)<br>_____ Shallow Aquitard (D3)<br>_____ Microtopographic Relief (D4)<br>_____ FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes _____ No _____ Depth (inches): _____<br>Water Table Present? Yes _____ No _____ Depth (inches): _____<br>Saturation Present? Yes _____ No _____ Depth (inches): _____<br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |   |
| Remarks:<br>Very hard to dig hold as it was uphill with large boulders, mature forest, and lots of roots. Sandy fill within the hole.   |  |   |

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

 Sampling Point: G-A-Up

| Tree Stratum (Plot size: <u>30</u> )          | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|---|------------------|-------------------|------------------|--|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. <u>Acer platanoides</u>                    | 10               | Yes               | UPL              | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>28.6%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                             | Multiply by:     |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                             | x 1 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                            | x 2 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                             | x 3 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                            | x 4 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                             | x 5 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                      | _____ (B)        |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Ulmus americana</u>                     | 10               | Yes               | FACW             |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Fraxinus americana</u>                  | 5                | Yes               | FACU             |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | 25               | =Total Cover      |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</u><br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Sapling/Shrub Stratum (Plot size: <u>15</u> ) |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Frangula alnus</u>                      | 20               | Yes               | FAC              |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Cornus alternifolia</u>                 | 5                | Yes               | FACU             |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                      |                  |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | 25               | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Herb Stratum (Plot size: <u>5</u> )           |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Reynoutria japonica</u>                 | 15               | Yes               | FACU             |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____                                      |                  |                   |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____                                     |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____                                     |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____                                     |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | 15               | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Woody Vine Stratum (Plot size: _____ )        |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Parthenocissus quinquefolia</u>         | 15               | Yes               | FACU             |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____                                      |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | 15               | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: G-A-Up

[illegible]





**Upland G-A- View facing East**



**Upland G-A- Northeast**

**Phase 1**

**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: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Depression/basin Local 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |   |
|---|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____<br>Hydric Soil Present? Yes <u>X</u> No _____<br>Wetland Hydrology Present? Yes <u>X</u> No _____ | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Cattail marsh (from flag 1 to 15).   |   |

## HYDROLOGY

|   |  |
|---|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u><br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |
| Remarks:  |  |

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

 Sampling Point: G-R-S-15 Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-----------------------|-----------------|-----------------------|-----------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>90</u></td> <td>x 1 = <u>90</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>95</u> (A)</td> <td><u>100</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.05</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>90</u> | x 1 = <u>90</u> | FACW species <u>5</u> | x 2 = <u>10</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>95</u> (A) | <u>100</u> (B) | Prevalence Index = B/A = <u>1.05</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| OBL species <u>90</u>                                | x 1 = <u>90</u>  |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| FACW species <u>5</u>                                | x 2 = <u>10</u>  |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| FAC species <u>0</u>                                 | x 3 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| FACU species <u>0</u>                                | x 4 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| UPL species <u>0</u>                                 | x 5 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| Column Totals: <u>95</u> (A)                         | <u>100</u> (B)   |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| Prevalence Index = B/A = <u>1.05</u>                 |                  |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 1. <u>Cornus alba</u>                                | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 1. <u>Typha latifolia</u>                            | <u>45</u>        | <u>Yes</u>        | <u>OBL</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. <u>Typha angustifolia</u>                         | <u>45</u>        | <u>Yes</u>        | <u>OBL</u>       |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 1. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                       |                 |                      |                |                       |                |                      |                |                              |                |                                      |  |

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

## SOIL

Sampling Point G-R-S-15 Wet

[illegible]





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

**Phase 1**

**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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |   |
|---|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____<br>Hydric Soil Present? Yes <u>X</u> No _____<br>Wetland Hydrology Present? Yes <u>X</u> No _____ | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Common reed marsh (from flag 15 to 19).                                      |   |

## HYDROLOGY

|   |  |
|---|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u><br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:<br><br>Remarks:  |  |

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

 Sampling Point: G-R-S-16 Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|----------------------|----------------|-------------------------|------------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>105</u></td> <td>x 2 = <u>210</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>210</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>105</u> | x 2 = <u>210</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>105</u> (A) | <u>210</u> (B) | Prevalence Index = B/A = <u>2.00</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACW species <u>105</u>                              | x 2 = <u>210</u> |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FAC species <u>0</u>                                 | x 3 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACU species <u>0</u>                                | x 4 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| UPL species <u>0</u>                                 | x 5 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Column Totals: <u>105</u> (A)                        | <u>210</u> (B)   |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Prevalence Index = B/A = <u>2.00</u>                 |                  |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Cornus alba</u>                                | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Phragmites australis</u>                       | <u>100</u>       | <u>Yes</u>        | <u>FACW</u>      | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                         |                  |                      |                |                       |                |                      |                |                               |                |                                      |  |

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

## SOIL

Sampling Point G-R-S-16 Wet

[illegible]





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

**Phase 1**

**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 & 16 Upd  
Investigator(s): J. Greaves & C. Scrivner Section, Township, Range: \_\_\_\_\_  
Landform (hillside, terrace, etc.): Terrace Local 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |   |
|--|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____  | Is the Sampled Area<br>within a Wetland? Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present? Yes _____ No <u>X</u>   |   |
| Wetland Hydrology Present? Yes _____ No <u>X</u>   |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Gravel road/embankment adjacent to railroad tracks. |   |

### HYDROLOGY

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

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

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

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|----------------------|----------------|------------------------|-----------------|-----------------------|------------------|-----------------------|-----------------|-----------------------|------------------|------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>35</u></td> <td>x 5 = <u>175</u></td> </tr> <tr> <td>Column Totals: <u>90</u> (A)</td> <td><u>335</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.72</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>10</u> | x 2 = <u>20</u> | FAC species <u>40</u> | x 3 = <u>120</u> | FACU species <u>5</u> | x 4 = <u>20</u> | UPL species <u>35</u> | x 5 = <u>175</u> | Column Totals: <u>90</u> (A) | <u>335</u> (B) | Prevalence Index = B/A = <u>3.72</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| FACW species <u>10</u>                               | x 2 = <u>20</u>  |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| FAC species <u>40</u>                                | x 3 = <u>120</u> |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| FACU species <u>5</u>                                | x 4 = <u>20</u>  |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| UPL species <u>35</u>                                | x 5 = <u>175</u> |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| Column Totals: <u>90</u> (A)                         | <u>335</u> (B)   |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| Prevalence Index = B/A = <u>3.72</u>                 |                  |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 1. <u>Rhus typhina</u>                               | <u>10</u>        | <u>Yes</u>        | <u>UPL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 2. <u>Rhamnus cathartica</u>                         | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 3. <u>Cornus alba</u>                                | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 1. <u>Centaurea stoebe</u>                           | <u>20</u>        | <u>Yes</u>        | <u>UPL</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____   |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 2. <u>Euthamia graminifolia</u>                      | <u>15</u>        | <u>Yes</u>        | <u>FAC</u>       |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 3. <u>Setaria pumila</u>                             | <u>15</u>        | <u>Yes</u>        | <u>FAC</u>       |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 4. <u>Oenothera biennis</u>                          | <u>5</u>         | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 5. <u>Hypericum perforatum</u>                       | <u>5</u>         | <u>No</u>         | <u>UPL</u>       |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 1. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                        |                 |                       |                  |                       |                 |                       |                  |                              |                |                                      |  |

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

## SOIL

Sampling Point}-R-S-15 & 16 Up

[illegible]





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

**Phase 1**

**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-X-1TTTT 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |                       |   |
|---|-----------------------|---|
| Hydrophytic Vegetation Present?   | Yes <u>X</u> No _____ | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present?  | Yes <u>X</u> No _____ |   |
| Wetland Hydrology Present?  | Yes <u>X</u> No _____ |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Common reed marsh. |                       |   |

## HYDROLOGY

|   |  |  |
|---|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>5</u><br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |  |
| Remarks:  |  |  |

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

 Sampling Point: -R-X-1TTTT W

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|----------------------|----------------|------------------------|------------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|------------------------------|----------------|--------------------------------------|--|
| 1. _____                                       | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>1</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>92</u></td> <td>x 2 = <u>184</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>97</u> (A)</td> <td><u>189</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.95</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>5</u> | x 1 = <u>5</u> | FACW species <u>92</u> | x 2 = <u>184</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>97</u> (A) | <u>189</u> (B) | Prevalence Index = B/A = <u>1.95</u> |  |
| Total % Cover of:                              | Multiply by:     |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| OBL species <u>5</u>                           | x 1 = <u>5</u>   |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| FACW species <u>92</u>                         | x 2 = <u>184</u> |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| FAC species <u>0</u>                           | x 3 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| FACU species <u>0</u>                          | x 4 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| UPL species <u>0</u>                           | x 5 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| Column Totals: <u>97</u> (A)                   | <u>189</u> (B)   |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| Prevalence Index = B/A = <u>1.95</u>           |                  |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 1. <u>Cornus alba</u>                          | <u>2</u>         | <u>No</u>         | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 1. <u>Phragmites australis</u>                 | <u>90</u>        | <u>Yes</u>        | <u>FACW</u>      | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. <u>Lythrum salicaria</u>                    | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 8. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 9. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 10. _____                                      | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 11. _____                                      | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 12. _____                                      | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| Woody Vine Stratum (Plot size: <u>0</u> )      |                  |                   |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 1. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                              |                |                                      |  |

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

## SOIL

Sampling Point 3-R-X-1 TTTT We

[illegible]





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

**Phase 1**

**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-X-1TTTTT Up  
 Investigator(s): J. Greaves & C. Scrivner Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrace Local 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |   |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <u>X</u>  | <b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present? Yes _____ No <u>X</u>   |   |
| Wetland Hydrology Present? Yes _____ No <u>X</u>   |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Successional old field. |   |

## HYDROLOGY

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

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

 Sampling Point: 3-R-X-1TTTT U

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|----------------------|----------------|-----------------------|-----------------|----------------------|-----------------|------------------------|-----------------|-----------------------|------------------|-------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>75</u></td> <td>x 5 = <u>375</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>480</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.57</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>5</u> | x 2 = <u>10</u> | FAC species <u>5</u> | x 3 = <u>15</u> | FACU species <u>20</u> | x 4 = <u>80</u> | UPL species <u>75</u> | x 5 = <u>375</u> | Column Totals: <u>105</u> (A) | <u>480</u> (B) | Prevalence Index = B/A = <u>4.57</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| FACW species <u>5</u>                                | x 2 = <u>10</u>  |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| FAC species <u>5</u>                                 | x 3 = <u>15</u>  |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| FACU species <u>20</u>                               | x 4 = <u>80</u>  |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| UPL species <u>75</u>                                | x 5 = <u>375</u> |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| Column Totals: <u>105</u> (A)                        | <u>480</u> (B)   |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| Prevalence Index = B/A = <u>4.57</u>                 |                  |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 1. <u>Rhus typhina</u>                               | <u>5</u>         | <u>Yes</u>        | <u>UPL</u>       |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 1. <u>Hypericum perforatum</u>                       | <u>60</u>        | <u>Yes</u>        | <u>UPL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>Problematic Hydrophytic Vegetation</u> <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. <u>Solidago canadensis</u>                        | <u>10</u>        | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. <u>Oenothera biennis</u>                          | <u>5</u>         | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. <u>Centaurea stoebe</u>                           | <u>5</u>         | <u>No</u>         | <u>UPL</u>       |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 5. <u>Verbascum thapsus</u>                          | <u>5</u>         | <u>No</u>         | <u>UPL</u>       |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 6. <u>Euthamia graminifolia</u>                      | <u>5</u>         | <u>No</u>         | <u>FAC</u>       |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 7. <u>Alliaria petiolata</u>                         | <u>5</u>         | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 8. <u>Phragmites australis</u>                       | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 1. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                 |                      |                 |                        |                 |                       |                  |                               |                |                                      |  |

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

## SOIL

Sampling Point 3-R-X-1 TTTT Up

[illegible]





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

**Phase 1**

**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-X-15SSS 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 Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |   |
|---|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____                                   | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present? Yes <u>X</u> No _____  |   |
| Wetland Hydrology Present? Yes <u>X</u> No _____  |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Shrub swamp. |   |

## HYDROLOGY

|  |  |  |
|--|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>3</u><br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |  |
| Remarks:   |  |  |

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

 Sampling Point: -R-X-1SSSS W

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover   | Dominant Species?   | Indicator Status |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
|--|--------------------|---------------------|------------------|---|-------------------|--------------|----------------------|----------------|------------------------|------------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|--------------------------|--------------------|--------------------------------------|--|
| 1. <u>Fraxinus pennsylvanica</u>               | <u>5</u>           | <u>Yes</u>          | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>95</u></td> <td>x 2 = <u>190</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>95</u></td> <td>(A) <u>190</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>95</u> | x 2 = <u>190</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>95</u> | (A) <u>190</u> (B) | Prevalence Index = B/A = <u>2.00</u> |  |
| Total % Cover of:                              | Multiply by:       |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| OBL species <u>0</u>                           | x 1 = <u>0</u>     |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| FACW species <u>95</u>                         | x 2 = <u>190</u>   |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| FAC species <u>0</u>                           | x 3 = <u>0</u>     |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| FACU species <u>0</u>                          | x 4 = <u>0</u>     |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| UPL species <u>0</u>                           | x 5 = <u>0</u>     |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| Column Totals: <u>95</u>                       | (A) <u>190</u> (B) |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| Prevalence Index = B/A = <u>2.00</u>           |                    |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 2. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 3. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 5. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 6. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 7. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
|  | <u>5</u>           | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                    |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 1. <u>Cornus alba</u>                          | <u>90</u>          | <u>Yes</u>          | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</u><br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 2. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 3. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 5. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 6. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 7. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
|  | <u>90</u>          | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                    |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 1. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 2. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 3. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 5. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 6. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 7. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 8. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 9. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 10. _____                                      | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 11. _____                                      | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 12. _____                                      | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
|  |                    | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| Woody Vine Stratum (Plot size: <u>30'</u> )    |                    |                     |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 1. _____                                       | _____              | _____               | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 2. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 3. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |
|  |                    | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                        |                  |                      |                |                       |                |                      |                |                          |                    |                                      |  |

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

## SOIL

Sampling Point: R-X-1SSSS We

[illegible]





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

**Phase 1**

**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-X-1RRRR 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: 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |   |
|---|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____                                     | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present? Yes <u>X</u> No _____  |   |
| Wetland Hydrology Present? Yes <u>X</u> No _____  |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Cattail marsh. |   |

## HYDROLOGY

|   |  |  |
|---|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>3</u><br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |  |
| Remarks:  |  |  |

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

 Sampling Point: -R-X-1RRRR W

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-----------------------|-----------------|------------------------|-----------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. _____                                       | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>95</u></td> <td>x 1 = <u>95</u></td> </tr> <tr> <td>FACW species <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>125</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.14</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>95</u> | x 1 = <u>95</u> | FACW species <u>15</u> | x 2 = <u>30</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>110</u> (A) | <u>125</u> (B) | Prevalence Index = B/A = <u>1.14</u> |  |
| Total % Cover of:                              | Multiply by:     |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| OBL species <u>95</u>                          | x 1 = <u>95</u>  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACW species <u>15</u>                         | x 2 = <u>30</u>  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FAC species <u>0</u>                           | x 3 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACU species <u>0</u>                          | x 4 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| UPL species <u>0</u>                           | x 5 = <u>0</u>   |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Column Totals: <u>110</u> (A)                  | <u>125</u> (B)   |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Prevalence Index = B/A = <u>1.14</u>           |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Cornus alba</u>                          | <u>15</u>        | <u>Yes</u>        | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Typha angustifolia</u>                   | <u>90</u>        | <u>Yes</u>        | <u>OBL</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. <u>Lythrum salicaria</u>                    | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 8. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 9. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 10. _____                                      | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 11. _____                                      | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 12. _____                                      | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Woody Vine Stratum (Plot size: <u>30'</u> )    |                  |                   |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |

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

## SOIL

Sampling Point: R-X-1RRRR W

[illegible]





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

**Phase 1**

**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-X-1RRRR Upl  
 Investigator(s): J. Greaves & C. Scrivner Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrace Local 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |                       |   |
|--|-----------------------|---|
| Hydrophytic Vegetation Present?  | Yes _____ No <u>X</u> | <b>Is the Sampled Area<br/>within a Wetland?</b> Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present?   | Yes _____ No <u>X</u> |   |
| Wetland Hydrology Present?   | Yes _____ No <u>X</u> |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Successional old field. This data plot represents the upland adjacent to wetland plots G-R-X-1RRRR and G-R-X-1SSSS. |                       |   |

## HYDROLOGY

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

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

 Sampling Point: -R-X-1RRRR U

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|------------------------|------------------|-----------------------|-----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>1</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>2</u></td> <td>x 2 = <u>4</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>85</u></td> <td>x 4 = <u>340</u></td> </tr> <tr> <td>UPL species <u>17</u></td> <td>x 5 = <u>85</u></td> </tr> <tr> <td>Column Totals: <u>104</u> (A)</td> <td><u>429</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.13</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>2</u> | x 2 = <u>4</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>85</u> | x 4 = <u>340</u> | UPL species <u>17</u> | x 5 = <u>85</u> | Column Totals: <u>104</u> (A) | <u>429</u> (B) | Prevalence Index = B/A = <u>4.13</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| FACW species <u>2</u>                                | x 2 = <u>4</u>   |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| FAC species <u>0</u>                                 | x 3 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| FACU species <u>85</u>                               | x 4 = <u>340</u> |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| UPL species <u>17</u>                                | x 5 = <u>85</u>  |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| Column Totals: <u>104</u> (A)                        | <u>429</u> (B)   |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| Prevalence Index = B/A = <u>4.13</u>                 |                  |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 1. <u>Rhus typhina</u>                               | <u>2</u>         | <u>No</u>         | <u>UPL</u>       |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 2. <u>Cornus alba</u>                                | <u>2</u>         | <u>No</u>         | <u>FACW</u>      |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 1. <u>Solidago canadensis</u>                        | <u>70</u>        | <u>Yes</u>        | <u>FACU</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</u><br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 2. <u>Oenothera biennis</u>                          | <u>10</u>        | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 3. <u>Hypericum perforatum</u>                       | <u>10</u>        | <u>No</u>         | <u>UPL</u>       |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 4. <u>Verbascum thapsus</u>                          | <u>5</u>         | <u>No</u>         | <u>UPL</u>       |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 5. <u>Alliaria petiolata</u>                         | <u>5</u>         | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 1. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                |                      |                |                        |                  |                       |                 |                               |                |                                      |  |

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

## SOIL

Sampling Point 5-R-X-1RRRRR Up

[illegible]



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

**Phase 1**

**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-X-1SSS 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: 43-31-31N 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |   |
|---|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____<br>Hydric Soil Present? Yes <u>X</u> No _____<br>Wetland Hydrology Present? Yes <u>X</u> No _____ | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Shallow emergent marsh.  |   |

## HYDROLOGY

|   |  |
|---|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u><br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>12</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>10</u><br>(includes capillary fringe)   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:<br><br>Remarks:  |  |

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

 Sampling Point: 3-R-X-1SSS Wet

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species?   | Indicator Status |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|--|------------------|---------------------|------------------|---|-------------------|--------------|-----------------------|-----------------|------------------------|-----------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. <u>Fraxinus pennsylvanica</u>               | <u>5</u>         | <u>Yes</u>          | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>90</u></td> <td>x 1 = <u>90</u></td> </tr> <tr> <td>FACW species <u>12</u></td> <td>x 2 = <u>24</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>102</u> (A)</td> <td><u>114</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.12</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>90</u> | x 1 = <u>90</u> | FACW species <u>12</u> | x 2 = <u>24</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>102</u> (A) | <u>114</u> (B) | Prevalence Index = B/A = <u>1.12</u> |  |
| Total % Cover of:                              | Multiply by:     |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| OBL species <u>90</u>                          | x 1 = <u>90</u>  |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACW species <u>12</u>                         | x 2 = <u>24</u>  |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FAC species <u>0</u>                           | x 3 = <u>0</u>   |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACU species <u>0</u>                          | x 4 = <u>0</u>   |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| UPL species <u>0</u>                           | x 5 = <u>0</u>   |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Column Totals: <u>102</u> (A)                  | <u>114</u> (B)   |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Prevalence Index = B/A = <u>1.12</u>           |                  |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  | <u>5</u>         | <u>=Total Cover</u> |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Cornus alba</u>                          | <u>5</u>         | <u>Yes</u>          | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. <u>Fraxinus pennsylvanica</u>               | <u>2</u>         | <u>Yes</u>          | <u>FACW</u>      |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  | <u>7</u>         | <u>=Total Cover</u> |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Carex lacustris</u>                      | <u>45</u>        | <u>Yes</u>          | <u>OBL</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. <u>Symphyotrichum puniceum</u>              | <u>20</u>        | <u>Yes</u>          | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. <u>Lythrum salicaria</u>                    | <u>15</u>        | <u>No</u>           | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. <u>Epilobium coloratum</u>                  | <u>10</u>        | <u>No</u>           | <u>OBL</u>       |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 8. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 9. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 10. _____                                      | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 11. _____                                      | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 12. _____                                      | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  | <u>90</u>        | <u>=Total Cover</u> |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Woody Vine Stratum (Plot size: <u>30'</u> )    |                  |                     |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____                                       | _____            | _____               | _____            |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|  | _____            | <u>=Total Cover</u> |                  |   |                   |              |                       |                 |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |

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

## SOIL

Sampling Point 3-R-X-1 SSS We

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |               |    |                |    |                   |                  |              |                                |
|---|---------------|----|----------------|----|-------------------|------------------|--------------|--------------------------------|
| Depth<br>(inches)   | Matrix        |    | Redox Features |    |                   |                  | Texture      | Remarks                        |
|   | Color (moist) | %  | Color (moist)  | %  | Type <sup>1</sup> | Loc <sup>2</sup> |              |                                |
| 0-5   | 2.5Y 2.5/1    | 95 | 10YR 3/4       | 5  | c                 | m                | 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                 | m                | Loamy/Clayey | Prominent redox concentrations |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |
|   |               |    |                |    |                   |                  |              |                                |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ 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 Surface (S8) (**LRR R,**  
    **MLRA 149B)**  
☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B)**  
☐ High Chroma Sands (S11) (**LRR K, L)**  
☐ Loamy Mucky Mineral (F1) (**LRR K, L)**  
☐ Loamy Gleyed Matrix (F2)  
☐ Depleted Matrix (F3)  
☒ X Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ ? Redox Depressions (F8)  
☐ Marl (F10) (**LRR K, L)**

Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B)**  
☐ ? Coast Prairie Redox (A16) (**LRR K, L, R)**  
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R)**  
☐ Polyvalue Below Surface (S8) (**LRR K, L)**  
☐ Thin Dark Surface (S9) (**LRR K, L)**  
☐ Iron-Manganese Masses (F12) (**LRR K, L, R)**  
☐ Piedmont Floodplain Soils (F19) (**MLRA 149B)**  
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B)**  
☐ Red Parent Material (F21)  
☐ Very Shallow Dark Surface (F22)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present?

Yes ☒ No \_\_\_\_\_

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,  
Version 7.0, 2015 Errata. ([http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_051293.docx](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx))



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



**Wetland G-R-X1-SSS - Soils**

**Phase 1**

**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-X-1SSS Up1  
 Investigator(s): J. Greaves & C. Scrivner Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrace Local 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |                       |   |
|--|-----------------------|---|
| Hydrophytic Vegetation Present?  | Yes _____ No <u>X</u> | <b>Is the Sampled Area<br/>within a Wetland?</b> Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present?   | Yes _____ No <u>X</u> |   |
| Wetland Hydrology Present?   | Yes _____ No <u>X</u> |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Successional old field. |                       |   |

## HYDROLOGY

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



Sampling Point: 3-R-X-1SSS Up

| Tree Stratum (Plot size: 30' )          |                             | Absolute % Cover | Dominant Species? | Indicator Status |
|---|-----------------------------|------------------|-------------------|------------------|
| 1.                                      |                             |                  |                   |                  |
| 2.                                      |                             |                  |                   |                  |
| 3.                                      |                             |                  |                   |                  |
| 4.                                      |                             |                  |                   |                  |
| 5.                                      |                             |                  |                   |                  |
| 6.                                      |                             |                  |                   |                  |
| 7.                                      |                             |                  |                   |                  |
|   |                             | =Total Cover     |                   |                  |
| Sapling/Shrub Stratum (Plot size: 15' ) |                             |                  |                   |                  |
| 1.                                      | <i>Rhamnus cathartica</i>   | 5                | Yes               | FAC              |
| 2.                                      |                             |                  |                   |                  |
| 3.                                      |                             |                  |                   |                  |
| 4.                                      |                             |                  |                   |                  |
| 5.                                      |                             |                  |                   |                  |
| 6.                                      |                             |                  |                   |                  |
| 7.                                      |                             |                  |                   |                  |
|   |                             | 5 =Total Cover   |                   |                  |
| Herb Stratum (Plot size: 5' )           |                             |                  |                   |                  |
| 1.                                      | <i>Centaurea stoebe</i>     | 50               | Yes               | UPL              |
| 2.                                      | <i>Oenothera biennis</i>    | 30               | Yes               | FACU             |
| 3.                                      | <i>Hypericum perforatum</i> | 15               | No                | UPL              |
| 4.                                      | <i>Daucus carota</i>        | 5                | No                | UPL              |
| 5.                                      |                             |                  |                   |                  |
| 6.                                      |                             |                  |                   |                  |
| 7.                                      |                             |                  |                   |                  |
| 8.                                      |                             |                  |                   |                  |
| 9.                                      |                             |                  |                   |                  |
| 10.                                     |                             |                  |                   |                  |
| 11.                                     |                             |                  |                   |                  |
| 12.                                     |                             |                  |                   |                  |
|   |                             | 100 =Total Cover |                   |                  |
| Woody Vine Stratum (Plot size: 30' )    |                             |                  |                   |                  |
| 1.                                      |                             |                  |                   |                  |
| 2.                                      |                             |                  |                   |                  |
| 3.                                      |                             |                  |                   |                  |
| 4.                                      |                             |                  |                   |                  |
|   |                             | =Total Cover     |                   |                  |

**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)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of:             | Multiply by: |
|-------------------------------|--------------|
| OBL species 0                 | x 1 = 0      |
| FACW species 0                | x 2 = 0      |
| FAC species 5                 | x 3 = 15     |
| FACU species 30               | x 4 = 120    |
| UPL species 70                | x 5 = 350    |
| Column Totals: 105 (A)        | 485 (B)      |
| Prevalence Index = B/A = 4.62 |              |

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, 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 No X

## SOIL

Sampling Point G-R-X-1 SSS Up

[illegible]



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

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: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): flat Local 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 disturbed? Are "Normal Circumstances" present? Yes x No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |
|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) _____ Water-Stained Leaves (B9)<br><input type="checkbox"/> High Water Table (A2) _____ Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) _____ Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) _____ Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) _____ Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input checked="" type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>x</u> No _____ Depth (inches): <u>0.5</u><br>Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____<br>Saturation Present? Yes <u>x</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |
| Remarks:   |  |

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

 Sampling Point: 3-R-X1-OO We

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover   | Dominant Species?   | Indicator Status |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
|--|--------------------|---------------------|------------------|---|-------------------|--------------|-----------------------|-----------------|-------------------------|------------------|-----------------------|-----------------|------------------------|-----------------|----------------------|----------------|---------------------------|--------------------|--------------------------------------|--|
| 1. <u>Fraxinus pennsylvanica</u>               | <u>75</u>          | <u>Yes</u>          | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>4</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 2. <u>Populus deltoides</u>                    | <u>8</u>           | <u>No</u>           | <u>FAC</u>       |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 3. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 5. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 6. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 7. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
|  | <u>83</u>          | <u>=Total Cover</u> |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>65</u></td> <td>x 1 = <u>65</u></td> </tr> <tr> <td>FACW species <u>107</u></td> <td>x 2 = <u>214</u></td> </tr> <tr> <td>FAC species <u>13</u></td> <td>x 3 = <u>39</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>205</u></td> <td>(A) <u>398</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.94</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>65</u> | x 1 = <u>65</u> | FACW species <u>107</u> | x 2 = <u>214</u> | FAC species <u>13</u> | x 3 = <u>39</u> | FACU species <u>20</u> | x 4 = <u>80</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>205</u> | (A) <u>398</u> (B) | Prevalence Index = B/A = <u>1.94</u> |  |
| Total % Cover of:                              | Multiply by:       |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| OBL species <u>65</u>                          | x 1 = <u>65</u>    |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| FACW species <u>107</u>                        | x 2 = <u>214</u>   |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| FAC species <u>13</u>                          | x 3 = <u>39</u>    |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| FACU species <u>20</u>                         | x 4 = <u>80</u>    |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| UPL species <u>0</u>                           | x 5 = <u>0</u>     |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| Column Totals: <u>205</u>                      | (A) <u>398</u> (B) |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| Prevalence Index = B/A = <u>1.94</u>           |                    |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                    |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 1. <u>Fraxinus pennsylvanica</u>               | <u>30</u>          | <u>Yes</u>          | <u>FACW</u>      |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 2. <u>Lonicera tatarica</u>                    | <u>20</u>          | <u>Yes</u>          | <u>FACU</u>      |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 3. <u>Rhamnus cathartica</u>                   | <u>5</u>           | <u>No</u>           | <u>FAC</u>       |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 5. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 6. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 7. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
|  | <u>55</u>          | <u>=Total Cover</u> |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                    |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 1. <u>Carex stricta</u>                        | <u>65</u>          | <u>Yes</u>          | <u>OBL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 2. <u>Onoclea sensibilis</u>                   | <u>2</u>           | <u>No</u>           | <u>FACW</u>      |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 3. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 5. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 6. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 7. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 8. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 9. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 10. _____                                      | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 11. _____                                      | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 12. _____                                      | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
|  | <u>67</u>          | <u>=Total Cover</u> |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| Woody Vine Stratum (Plot size: <u>30'</u> )    |                    |                     |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 1. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 2. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 3. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
| 4. _____                                       | _____              | _____               | _____            |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |
|  | _____              | <u>=Total Cover</u> |                  |   |                   |              |                       |                 |                         |                  |                       |                 |                        |                 |                      |                |                           |                    |                                      |  |

Definitions of Vegetation Strata:  
  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
  
**Sapling/shrub** – Woody plants less than 3 in. DBH 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 3.28 ft in height.

**Hydrophytic Vegetation Present?**      Yes X      No \_\_\_\_\_

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



## SOIL

Sampling Point G-R-X1-00 Wet

[illegible]



**Wetland G-R-X1-00- View facing west**



**Wetland G-R-X1-00 - Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE City/County: Whitehall/Washington Sampling Date: 1/5/22  
 Applicant/Owner: TDI State: NY Sampling Point: G-R-X1-00 Up  
 Investigator(s): N. Frazer, J. Greaves Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): flat Local 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: 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 x, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes x No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |   |
|---|---|
| Hydrophytic Vegetation Present? Yes _____ No <u>X</u><br>Hydric Soil Present? Yes _____ No <u>X</u><br>Wetland Hydrology Present? Yes _____ No <u>X</u> | <b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Ballast/ Successional Old Field  |   |

## HYDROLOGY

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

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

 Sampling Point: G-R-X1-OO Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species?   | Indicator Status |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
|--|------------------|---------------------|------------------|---|-------------------|--------------|----------------------|----------------|-----------------------|----------------|-----------------------|------------------|------------------------|------------------|----------------------|-----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. <u>Betula populifolia</u>                         | <u>10</u>        | <u>Yes</u>          | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>4</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>67</u></td> <td>x 4 = <u>268</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>107</u> (A)</td> <td><u>398</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.72</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>0</u> | x 2 = <u>0</u> | FAC species <u>35</u> | x 3 = <u>105</u> | FACU species <u>67</u> | x 4 = <u>268</u> | UPL species <u>5</u> | x 5 = <u>25</u> | Column Totals: <u>107</u> (A) | <u>398</u> (B) | Prevalence Index = B/A = <u>3.72</u> |  |
| Total % Cover of:                                    | Multiply by:     |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| FACW species <u>0</u>                                | x 2 = <u>0</u>   |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| FAC species <u>35</u>                                | x 3 = <u>105</u> |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| FACU species <u>67</u>                               | x 4 = <u>268</u> |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| UPL species <u>5</u>                                 | x 5 = <u>25</u>  |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| Column Totals: <u>107</u> (A)                        | <u>398</u> (B)   |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| Prevalence Index = B/A = <u>3.72</u>                 |                  |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 2. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 3. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 4. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 5. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 6. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 7. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
|  | <u>10</u>        | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 1. <u>Lonicera tatarica</u>                          | <u>10</u>        | <u>Yes</u>          | <u>FACU</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 2. <u>Prunus serotina</u>                            | <u>2</u>         | <u>No</u>           | <u>FACU</u>      |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 3. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 4. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 5. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 6. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 7. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
|  | <u>12</u>        | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 1. <u>Setaria pumila</u>                             | <u>25</u>        | <u>Yes</u>          | <u>FAC</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 2. <u>Schizachyrium scoparium</u>                    | <u>50</u>        | <u>Yes</u>          | <u>FACU</u>      |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 3. <u>Verbascum thapsus</u>                          | <u>5</u>         | <u>No</u>           | <u>UPL</u>       |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 4. <u>Fragaria virginiana</u>                        | <u>5</u>         | <u>No</u>           | <u>FACU</u>      |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 5. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 6. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 7. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 8. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 9. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 10. _____  | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 11. _____  | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 12. _____  | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
|  | <u>85</u>        | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                     |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 1. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 2. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 3. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
| 4. _____   | _____            | _____               | _____            |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |
|  | _____            | <u>=Total Cover</u> |                  |   |                   |              |                      |                |                       |                |                       |                  |                        |                  |                      |                 |                               |                |                                      |  |

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



## SOIL

Sampling Point G-R-X1-00 Up

[illegible]





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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

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  
 Subregion (LRR or MLRA): LRR R Lat: \_\_\_\_\_ 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 disturbed? Are "Normal Circumstances" present? Yes x No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |   |
|---|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) _____ Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) _____ Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15)<br>_____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1)<br>_____ Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br>_____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4)<br>_____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6)<br>_____ Iron Deposits (B5) _____ Thin Muck Surface (C7)<br>_____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)<br>_____ Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of two required)</u><br>_____ Surface Soil Cracks (B6)<br>_____ Drainage Patterns (B10)<br>_____ Moss Trim Lines (B16)<br>_____ Dry-Season Water Table (C2)<br>_____ Crayfish Burrows (C8)<br>_____ Saturation Visible on Aerial Imagery (C9)<br>_____ Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br>_____ Shallow Aquitard (D3)<br>_____ Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>x</u> No _____ Depth (inches): <u>0.5</u><br>Water Table Present? Yes <u>x</u> No _____ Depth (inches): <u>8</u><br>Saturation Present? Yes <u>x</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |   |
| Remarks:  |   |

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

 Sampling Point: G-R-X1-AA We

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species?   | Indicator Status |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
|--|------------------|---------------------|------------------|--|-------------------|--------------|-----------------------|-----------------|-------------------------|------------------|----------------------|-----------------|-----------------------|----------------|----------------------|----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. <u>Fraxinus pennsylvanica</u>                     | <u>40</u>        | <u>Yes</u>          | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>75</u></td> <td>x 1 = <u>75</u></td> </tr> <tr> <td>FACW species <u>116</u></td> <td>x 2 = <u>232</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>196</u> (A)</td> <td><u>322</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.64</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>75</u> | x 1 = <u>75</u> | FACW species <u>116</u> | x 2 = <u>232</u> | FAC species <u>5</u> | x 3 = <u>15</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>196</u> (A) | <u>322</u> (B) | Prevalence Index = B/A = <u>1.64</u> |  |
| Total % Cover of:                                    | Multiply by:     |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| OBL species <u>75</u>                                | x 1 = <u>75</u>  |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| FACW species <u>116</u>                              | x 2 = <u>232</u> |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| FAC species <u>5</u>                                 | x 3 = <u>15</u>  |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| FACU species <u>0</u>                                | x 4 = <u>0</u>   |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| UPL species <u>0</u>                                 | x 5 = <u>0</u>   |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| Column Totals: <u>196</u> (A)                        | <u>322</u> (B)   |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| Prevalence Index = B/A = <u>1.64</u>                 |                  |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
|  | <u>40</u>        | <u>=Total Cover</u> |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Cornus alba</u>                                | <u>55</u>        | <u>Yes</u>          | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 2. <u>Cornus racemosa</u>                            | <u>5</u>         | <u>No</u>           | <u>FAC</u>       |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 3. <u>Fraxinus pennsylvanica</u>                     | <u>6</u>         | <u>No</u>           | <u>FACW</u>      |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
|  | <u>66</u>        | <u>=Total Cover</u> |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Symphyotrichum novae-angliae</u>               | <u>15</u>        | <u>No</u>           | <u>FACW</u>      | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____   |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 2. <u>Carex lacustris</u>                            | <u>75</u>        | <u>Yes</u>          | <u>OBL</u>       |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 8. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 9. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 10. _____  | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 11. _____  | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 12. _____  | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
|  | <u>90</u>        | <u>=Total Cover</u> |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                     |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 1. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____               | _____            |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |
|  | _____            | <u>=Total Cover</u> |                  |  |                   |              |                       |                 |                         |                  |                      |                 |                       |                |                      |                |                               |                |                                      |  |

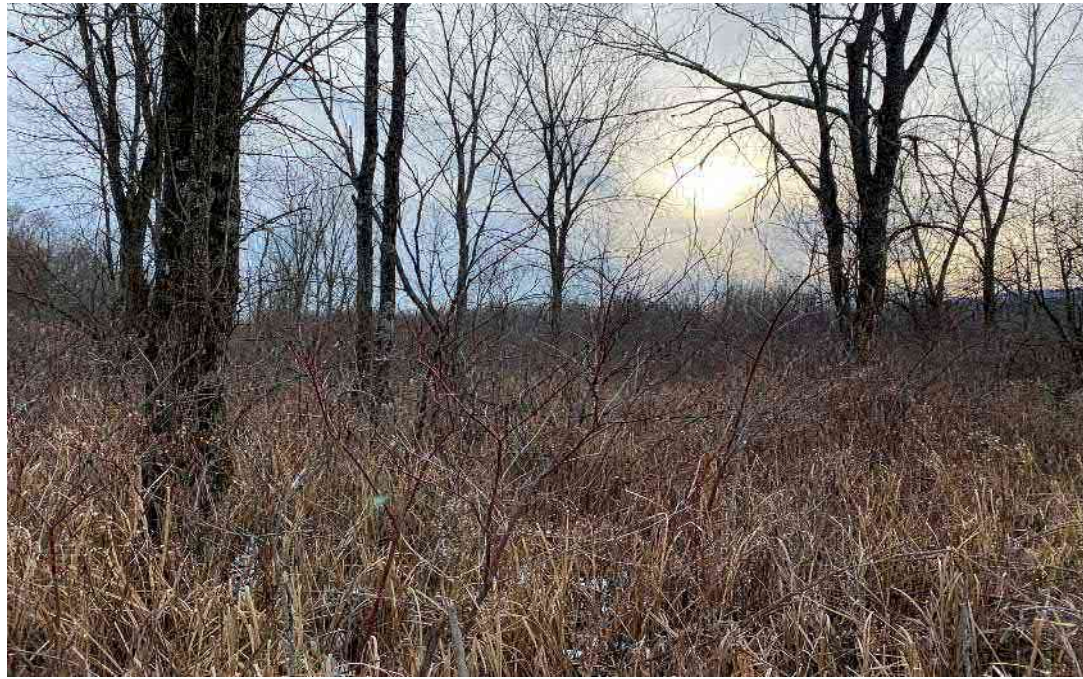
Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point G-R-X1-AA Wet

[illegible]





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



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

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  
 Subregion (LRR or MLRA): LRR R Lat: \_\_\_\_\_ 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 disturbed? Are "Normal Circumstances" present? Yes x No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |   |
|---|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) _____ Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) _____ Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15)<br>_____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1)<br>_____ Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br>_____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4)<br>_____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6)<br>_____ Iron Deposits (B5) _____ Thin Muck Surface (C7)<br>_____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)<br>_____ Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of two required)</u><br>_____ Surface Soil Cracks (B6)<br>_____ Drainage Patterns (B10)<br>_____ Moss Trim Lines (B16)<br>_____ Dry-Season Water Table (C2)<br>_____ Crayfish Burrows (C8)<br>_____ Saturation Visible on Aerial Imagery (C9)<br>_____ Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br>_____ Shallow Aquitard (D3)<br>_____ Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>x</u> No _____ Depth (inches): <u>0.5</u><br>Water Table Present? Yes <u>x</u> No _____ Depth (inches): <u>8</u><br>Saturation Present? Yes <u>x</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe)   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |   |
| Remarks:  |   |

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

 Sampling Point: G-R-X1-AA We

| Tree Stratum (Plot size: <u>30'</u> )                 | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|---|------------------|-------------------|------------------|---|-------------------|--------------|------------------------|------------------|------------------------|-----------------|----------------------|----------------|-----------------------|----------------|----------------------|----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. _____  | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>100</u></td> <td>x 1 = <u>100</u></td> </tr> <tr> <td>FACW species <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC species <u>2</u></td> <td>x 3 = <u>6</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>117</u> (A)</td> <td><u>136</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.16</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>100</u> | x 1 = <u>100</u> | FACW species <u>15</u> | x 2 = <u>30</u> | FAC species <u>2</u> | x 3 = <u>6</u> | FACU species <u>0</u> | x 4 = <u>0</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>117</u> (A) | <u>136</u> (B) | Prevalence Index = B/A = <u>1.16</u> |  |
| Total % Cover of:                                     | Multiply by:     |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| OBL species <u>100</u>                                | x 1 = <u>100</u> |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACW species <u>15</u>                                | x 2 = <u>30</u>  |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FAC species <u>2</u>                                  | x 3 = <u>6</u>   |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| FACU species <u>0</u>                                 | x 4 = <u>0</u>   |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| UPL species <u>0</u>                                  | x 5 = <u>0</u>   |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Column Totals: <u>117</u> (A)                         | <u>136</u> (B)   |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| Prevalence Index = B/A = <u>1.16</u>                  |                  |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|   |                  | =Total Cover      |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> ) |                  |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Cornus alba</u>                                 | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. <u>Cornus racemosa</u>                             | <u>2</u>         | <u>Yes</u>        | <u>FAC</u>       |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|   |                  | =Total Cover      |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| <b>Herb Stratum</b> (Plot size: <u>5'</u> )           |                  |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. <u>Lythrum salicaria</u>                           | <u>2</u>         | <u>No</u>         | <u>OBL</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____  |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. <u>Onoclea sensibilis</u>                          | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. <u>Symphyotrichum novae-angliae</u>                | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. <u>Carex lacustris</u>                             | <u>98</u>        | <u>Yes</u>        | <u>OBL</u>       |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 5. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 6. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 7. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 8. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 9. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 10. _____   | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 11. _____   | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 12. _____   | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|   |                  | =Total Cover      |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| <b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )    |                  |                   |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 1. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 2. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 3. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
| 4. _____  | _____            | _____             | _____            |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |
|   |                  | =Total Cover      |                  |   |                   |              |                        |                  |                        |                 |                      |                |                       |                |                      |                |                               |                |                                      |  |

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

## SOIL

Sampling Point G-R-X1-AA Wet

[illegible]



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



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

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: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): hillslope Local 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 disturbed? Are "Normal Circumstances" present? Yes x No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |   |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <u>X</u>  | <b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present? Yes _____ No <u>X</u>   |   |
| Wetland Hydrology Present? Yes _____ No <u>X</u>   |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Railroad Embankment/ Upland Scrub Shrub/ Successional Old Field |   |

## HYDROLOGY

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



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

 Sampling Point: G-R-X1-AA Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|----------------------|----------------|-----------------------|-----------------|----------------------|----------------|------------------------|------------------|-----------------------|------------------|------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>25</u></td> <td>x 5 = <u>125</u></td> </tr> <tr> <td>Column Totals: <u>80</u> (A)</td> <td><u>335</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.19</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>5</u> | x 2 = <u>10</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>50</u> | x 4 = <u>200</u> | UPL species <u>25</u> | x 5 = <u>125</u> | Column Totals: <u>80</u> (A) | <u>335</u> (B) | Prevalence Index = B/A = <u>4.19</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| FACW species <u>5</u>                                | x 2 = <u>10</u>  |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| FAC species <u>0</u>                                 | x 3 = <u>0</u>   |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| FACU species <u>50</u>                               | x 4 = <u>200</u> |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| UPL species <u>25</u>                                | x 5 = <u>125</u> |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| Column Totals: <u>80</u> (A)                         | <u>335</u> (B)   |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| Prevalence Index = B/A = <u>4.19</u>                 |                  |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 1. <u>Rhus typhina</u>                               | <u>25</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 2. <u>Lonicera tatarica</u>                          | <u>15</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 3. <u>Cornus alba</u>                                | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 1. <u>Cirsium arvense</u>                            | <u>8</u>         | <u>Yes</u>        | <u>FACU</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>  </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 2. <u>Schizachyrium scoparium</u>                    | <u>15</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 3. <u>Oenothera biennis</u>                          | <u>7</u>         | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 1. <u>Vitis aestivalis</u>                           | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |
|  |                  | =Total Cover      |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>  </u> No <u>X</u>  |                   |              |                      |                |                       |                 |                      |                |                        |                  |                       |                  |                              |                |                                      |  |

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

## SOIL

Sampling Point G-R-X1-AA Up

[illegible]



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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-X-Wet  
 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/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 Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |  |
|--|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input checked="" type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): <u>3</u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>8</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |  |
| Remarks:   |  |  |

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

 Sampling Point: GR-X-Wet

| Tree Stratum (Plot size: <u>30'</u> )                                | Absolute % Cover | Dominant Species?   | Indicator Status |  |
|--|------------------|---------------------|------------------|--|
| 1. <u>Acer rubrum</u>  | <u>15</u>        | <u>Yes</u>          | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>9</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>77.8%</u> (A/B)  |
| 2. <u>Populus deltoides</u>  | <u>10</u>        | <u>Yes</u>          | <u>FAC</u>       |  |
| 3. <u>Acer saccharinum</u>   | <u>5</u>         | <u>No</u>           | <u>FACW</u>      |  |
| 4. <u>Acer negundo</u>   | <u>5</u>         | <u>No</u>           | <u>FAC</u>       |  |
| 5. <u>Ulmus americana</u>  | <u>5</u>         | <u>No</u>           | <u>FACW</u>      |  |
| 6. _____   | _____            | _____               | _____            |  |
| 7. _____   | _____            | _____               | _____            |  |
| <u>40</u>  |                  | <u>=Total Cover</u> |                  | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>                 |                  |                     |                  |  |
| 1. <u>Rhus typhina</u>   | <u>10</u>        | <u>Yes</u>          | <u>UPL</u>       |  |
| 2. <u>Salix nigra</u>  | <u>5</u>         | <u>Yes</u>          | <u>OBL</u>       |  |
| 3. <u>Rhamnus cathartica</u>   | <u>5</u>         | <u>Yes</u>          | <u>FAC</u>       |  |
| 4. <u>Lonicera tatarica</u>  | <u>5</u>         | <u>Yes</u>          | <u>FACU</u>      |  |
| 5. <u>Staphylea trifolia</u>   | <u>5</u>         | <u>Yes</u>          | <u>FAC</u>       |  |
| <u>30</u>  |                  | <u>=Total Cover</u> |                  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                           |                  |                     |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. <u>Lythrum salicaria</u>  | <u>15</u>        | <u>Yes</u>          | <u>OBL</u>       |  |
| 2. <u>Phalaris arundinacea</u>                                       | <u>15</u>        | <u>Yes</u>          | <u>FACW</u>      |  |
| 3. <u>Scirpus atrovirens</u>   | <u>5</u>         | <u>No</u>           | <u>OBL</u>       |  |
| 4. <u>Symphyotrichum novae-angliae</u>                               | <u>5</u>         | <u>No</u>           | <u>FAC</u>       |  |
| 5. <u>Lysimachia nummularia</u>                                      | <u>5</u>         | <u>No</u>           | <u>FACW</u>      |  |
| 6. _____   | _____            | _____               | _____            |  |
| 7. _____   | _____            | _____               | _____            |  |
| 8. _____   | _____            | _____               | _____            |  |
| 9. _____   | _____            | _____               | _____            |  |
| 10. _____  | _____            | _____               | _____            |  |
| 11. _____  | _____            | _____               | _____            |  |
| 12. _____  | _____            | _____               | _____            |  |
| <u>45</u>  |                  | <u>=Total Cover</u> |                  |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>                    |                  |                     |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                   |
| 1. _____   | _____            | _____               | _____            |  |
| 2. _____   | _____            | _____               | _____            |  |
| 3. _____   | _____            | _____               | _____            |  |
| 4. _____   | _____            | _____               | _____            |  |
| <u>      </u>  |                  | <u>=Total Cover</u> |                  |  |
| <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u> |                  |                     |                  |  |

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



## SOIL

Sampling Point: GR-X-Wet

[illegible]



**Wetland G-R-X- View facing West**



**Wetland G-R-X- Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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-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/Vergennes 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: GR-X-Up

| Tree Stratum (Plot size: <u>30'</u> )                 | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|---|------------------|-------------------|------------------|--|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. <u>Populus deltoides</u>                           | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                     | Multiply by:     |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                                     | x 1 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                                    | x 2 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                                     | x 3 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                                    | x 4 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                                     | x 5 = _____      |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                              | _____ (B)        |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                        |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | <u>10</u>        | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> ) |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Rhus typhina</u>                                | <u>15</u>        | <u>Yes</u>        | <u>UPL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Lonicera tatarica</u>                           | <u>20</u>        | <u>Yes</u>        | <u>FACU</u>      |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | <u>35</u>        | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum</b> (Plot size: <u>5'</u> )           |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Centaurea stoebe</u>                            | <u>35</u>        | <u>Yes</u>        | <u>UPL</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Phalaris arundinacea</u>                        | <u>15</u>        | <u>Yes</u>        | <u>FACW</u>      |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Solidago canadensis</u>                         | <u>10</u>        | <u>No</u>         | <u>FACU</u>      |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. <u>Setaria faberi</u>                              | <u>10</u>        | <u>No</u>         | <u>FACU</u>      |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. <u>Phragmites australis</u>                        | <u>10</u>        | <u>No</u>         | <u>FACW</u>      |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____   | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | <u>80</u>        | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum</b> (Plot size: <u>15'</u> )    |                  |                   |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____  | _____            | _____             | _____            |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|   | _____            | =Total Cover      |                  |  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: GR-X-Up

[illegible]





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



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

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-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°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? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: GR-U-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |
|--|------------------|-------------------|------------------|--|
| 1. <u>Acer rubrum</u>                                | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>10</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>70.0%</u> (A/B)   |
| 2. <u>Fraxinus pennsylvanica</u>                     | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Ulmus americana</u>                            | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |  |
| 4. <u>Acer negundo</u>                               | <u>5</u>         | <u>No</u>         | <u>FAC</u>       |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| <u>30</u>  |                  | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |
| 1. <u>Rhus typhina</u>                               | <u>5</u>         | <u>Yes</u>        | <u>UPL</u>       |  |
| 2. <u>Alnus incana</u>                               | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Lonicera tatarica</u>                          | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| <u>20</u>  |                  | =Total Cover      |                  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |
| 1. <u>Lythrum salicaria</u>                          | <u>15</u>        | <u>Yes</u>        | <u>OBL</u>       |  |
| 2. <u>Phalaris arundinacea</u>                       | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Scirpus cyperinus</u>                          | <u>10</u>        | <u>Yes</u>        | <u>OBL</u>       |  |
| 4. <u>Onoclea sensibilis</u>                         | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |  |
| 5. <u>Solidago canadensis</u>                        | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |  |
| 6. <u>Epilobium coloratum</u>                        | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |  |
| 7. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                   |
| 8. _____   | _____            | _____             | _____            |  |
| 9. _____   | _____            | _____             | _____            |  |
| 10. _____  | _____            | _____             | _____            |  |
| 11. _____  | _____            | _____             | _____            |  |
| 12. _____  | _____            | _____             | _____            |  |
| <u>70</u>  |                  | =Total Cover      |                  |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |  |
| 1. _____   | _____            | _____             | _____            | <b>Hydrophytic Vegetation</b><br>Present?      Yes <u>X</u> No _____   |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| <u>      </u>  |                  | =Total Cover      |                  |  |

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

## SOIL

Sampling Point: GR-U-Wet

[illegible]





**Wetland G-R-U- View facing East**



**Wetland G-R-U- Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

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 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: GR-U-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover    | Dominant Species?   | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|--|---------------------|---------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|----------------------|---------------------|--------------------------------|--|
| 1. <u>Populus deltoides</u>                          | <u>5</u>            | <u>Yes</u>          | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | <u>5</u>            | <u>=Total Cover</u> |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ | (A) _____ (B) _____ | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:        |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| OBL species _____                                    | x 1 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACW species _____                                   | x 2 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FAC species _____                                    | x 3 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| FACU species _____                                   | x 4 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| UPL species _____                                    | x 5 = _____         |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Column Totals: _____                                 | (A) _____ (B) _____ |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| Prevalence Index = B/A = _____                       |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Rhus typhina</u>                               | <u>15</u>           | <u>Yes</u>          | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Juniperus virginiana</u>                       | <u>15</u>           | <u>Yes</u>          | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | <u>30</u>           | <u>=Total Cover</u> |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Centaurea stoebe</u>                           | <u>35</u>           | <u>Yes</u>          | <u>UPL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>_____</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. <u>Schizachyrium scoparium</u>                    | <u>30</u>           | <u>Yes</u>          | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. <u>Cirsium arvense</u>                            | <u>15</u>           | <u>No</u>           | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 5. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 6. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 7. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 8. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 9. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 10. _____  | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 11. _____  | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 12. _____  | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | <u>80</u>           | <u>=Total Cover</u> |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                     |                     |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 1. <u>Rubus allegheniensis</u>                       | <u>5</u>            | <u>Yes</u>          | <u>FACU</u>      | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 2. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 3. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
| 4. _____   | _____               | _____               | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |
|  | <u>5</u>            | <u>=Total Cover</u> |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                      |                     |                                |  |

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

## SOIL

Sampling Point: GR-U-Up

[illegible]



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



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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-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°50'75.59"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? Yes X No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|   |  |   |
|---|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><u></u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9)<br><u></u> High Water Table (A2) <u></u> Aquatic Fauna (B13)<br><u>X</u> Saturation (A3) <u></u> Marl Deposits (B15)<br><u></u> Water Marks (B1) <u></u> Hydrogen Sulfide Odor (C1)<br><u></u> Sediment Deposits (B2) <u></u> Oxidized Rhizospheres on Living Roots (C3)<br><u></u> Drift Deposits (B3) <u></u> Presence of Reduced Iron (C4)<br><u></u> Algal Mat or Crust (B4) <u></u> Recent Iron Reduction in Tilled Soils (C6)<br><u></u> Iron Deposits (B5) <u></u> Thin Muck Surface (C7)<br><u></u> Inundation Visible on Aerial Imagery (B7) <u></u> Other (Explain in Remarks)<br><u></u> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><u></u> Surface Soil Cracks (B6)<br><u>X</u> Drainage Patterns (B10)<br><u></u> Moss Trim Lines (B16)<br><u></u> Dry-Season Water Table (C2)<br><u></u> Crayfish Burrows (C8)<br><u></u> Saturation Visible on Aerial Imagery (C9)<br><u></u> Stunted or Stressed Plants (D1)<br><u></u> Geomorphic Position (D2)<br><u></u> Shallow Aquitard (D3)<br><u></u> Microtopographic Relief (D4)<br><u>X</u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>6</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |   |
| Remarks:  |  |   |



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

 Sampling Point: GR-V-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |
|--|------------------|-------------------|------------------|--|
| 1. <u>Acer rubrum</u>                                | <u>15</u>        | <u>Yes</u>        | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)  |
| 2. <u>Fraxinus pennsylvanica</u>                     | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |  |
| 3. <u>Ulmus americana</u>                            | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 4. <u>Acer negundo</u>                               | <u>5</u>         | <u>No</u>         | <u>FAC</u>       |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| <u>35</u>  |                  | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |
| 1. <u>Cornus racemosa</u>                            | <u>15</u>        | <u>Yes</u>        | <u>FAC</u>       |  |
| 2. <u>Alnus incana</u>                               | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Lonicera tatarica</u>                          | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            | <b>Hydrophytic Vegetation Indicators:</b><br><u>  </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>  </u> X 2 - Dominance Test is >50%<br><u>  </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>  </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>  </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| <u>25</u>  |                  | =Total Cover      |                  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |
| 1. <u>Lythrum salicaria</u>                          | <u>10</u>        | <u>No</u>         | <u>OBL</u>       |  |
| 2. <u>Phalaris arundinacea</u>                       | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |  |
| 3. <u>Scirpus atrovirens</u>                         | <u>25</u>        | <u>Yes</u>        | <u>OBL</u>       |  |
| 4. <u>Onoclea sensibilis</u>                         | <u>25</u>        | <u>Yes</u>        | <u>FAC</u>       |  |
| 5. <u>Solidago canadensis</u>                        | <u>5</u>         | <u>No</u>         | <u>FACU</u>      |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| 8. _____   | _____            | _____             | _____            |  |
| 9. _____   | _____            | _____             | _____            |  |
| 10. _____  | _____            | _____             | _____            |  |
| 11. _____  | _____            | _____             | _____            |  |
| 12. _____  | _____            | _____             | _____            |  |
| <u>70</u>  |                  | =Total Cover      |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |  |
| 1. _____   | _____            | _____             | _____            |  |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| _____  |                  | =Total Cover      |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>   |

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

## SOIL

Sampling Point: GR-V-Wet

[illegible]



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



**Wetland G-R-V- Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: GR-V-Up

| Tree Stratum (Plot size: <u>30'</u> )  | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>14.3%</u> (A/B)   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:  | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____  | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____   | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____  | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____   | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____  | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)   | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>                         |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Rhus typhina</u>   | <u>15</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Juniperus virginiana</u>   | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                                   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Centaurea stoebe</u>   | <u>15</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Solidago canadensis</u>  | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Echinochloa crus-galli</u>   | <u>10</u>        | <u>Yes</u>        | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. <u>Asclepias syriaca</u>  | <u>5</u>         | <u>No</u>         | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>                            |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Rubus allegheniensis</u>   | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Parthenocissus quinquefolia</u>  | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Hydrophytic Vegetation</b><br>Present?      Yes <u>      </u> No <u>X</u> |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|  |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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



## SOIL

Sampling Point: GR-V-Up

[illegible]



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



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

**Phase 1**

## **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

## 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 Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
|---|---------------------------------|--------------|----------|----------------------|--------------|----------|----------------------------|--------------|----------|---|----------------------------|--|--|--|---|--|
| <table style="width: 100%;"><tr><td style="width: 30%;">Hydrophytic Vegetation Present?</td><td style="width: 20%;">Yes <u>X</u></td><td style="width: 20%;">No _____</td></tr><tr><td>Hydric Soil Present?</td><td>Yes <u>X</u></td><td>No _____</td></tr><tr><td>Wetland Hydrology Present?</td><td>Yes <u>X</u></td><td>No _____</td></tr></table> | Hydrophytic Vegetation Present? | Yes <u>X</u> | No _____ | Hydric Soil Present? | Yes <u>X</u> | No _____ | Wetland Hydrology Present? | Yes <u>X</u> | No _____ | <table style="width: 100%;"><tr><td colspan="2"><b>Is the Sampled Area</b></td></tr><tr><td colspan="2"><b>within a Wetland?</b> Yes <u>X</u> No _____</td></tr><tr><td colspan="2">If yes, optional Wetland Site ID: _____</td></tr></table> | <b>Is the Sampled Area</b> |  | <b>within a Wetland?</b> Yes <u>X</u> No _____ |  | If yes, optional Wetland Site ID: _____ |  |
| Hydrophytic Vegetation Present?   | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Hydric Soil Present?  | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Wetland Hydrology Present?  | Yes <u>X</u>                    | No _____     |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| <b>Is the Sampled Area</b>  |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| <b>within a Wetland?</b> Yes <u>X</u> No _____  |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| If yes, optional Wetland Site ID: _____   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |
| Remarks: (Explain alternative procedures here or in a separate report.)   |                                 |              |          |                      |              |          |                            |              |          |   |                            |  |  |  |   |  |

### HYDROLOGY

|   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
|---|--|-----------------------------|------------------------------------|-----------------------------|---------------------------|--------------------------|---------------------------|------------------------|----------------------------------|------------------------------|--|---------------------------|-------------------------------------|---|--|--------------------------|------------------------------|---|----------------------------------|---|--|---|--------------------------------|----------------------------------|-----------------------------|-----------------------------------|-----------------------------|---|---------------------------------------|--------------------------------|-----------------------------|------------------------------------|--------------------------------|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><table style="width: 100%;"><tr><td><u>X</u> Surface Water (A1)</td><td><u>X</u> Water-Stained Leaves (B9)</td></tr><tr><td>_____ High Water Table (A2)</td><td>_____ Aquatic Fauna (B13)</td></tr><tr><td><u>X</u> Saturation (A3)</td><td>_____ Marl Deposits (B15)</td></tr><tr><td>_____ Water Marks (B1)</td><td>_____ Hydrogen Sulfide Odor (C1)</td></tr><tr><td>_____ Sediment Deposits (B2)</td><td>_____ Oxidized Rhizospheres on Living Roots (C3)</td></tr><tr><td>_____ Drift Deposits (B3)</td><td>_____ Presence of Reduced Iron (C4)</td></tr><tr><td>_____ Algal Mat or Crust (B4)</td><td>_____ Recent Iron Reduction in Tilled Soils (C6)</td></tr><tr><td>_____ Iron Deposits (B5)</td><td>_____ Thin Muck Surface (C7)</td></tr><tr><td>_____ Inundation Visible on Aerial Imagery (B7)</td><td>_____ Other (Explain in Remarks)</td></tr><tr><td>_____ Sparsely Vegetated Concave Surface (B8)</td><td></td></tr></table> |  | <u>X</u> Surface Water (A1) | <u>X</u> Water-Stained Leaves (B9) | _____ High Water Table (A2) | _____ Aquatic Fauna (B13) | <u>X</u> Saturation (A3) | _____ Marl Deposits (B15) | _____ Water Marks (B1) | _____ Hydrogen Sulfide Odor (C1) | _____ Sediment Deposits (B2) | _____ Oxidized Rhizospheres on Living Roots (C3) | _____ Drift Deposits (B3) | _____ Presence of Reduced Iron (C4) | _____ Algal Mat or Crust (B4)   | _____ Recent Iron Reduction in Tilled Soils (C6) | _____ Iron Deposits (B5) | _____ Thin Muck Surface (C7) | _____ Inundation Visible on Aerial Imagery (B7) | _____ Other (Explain in Remarks) | _____ Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><table style="width: 100%;"><tr><td>_____ Surface Soil Cracks (B6)</td></tr><tr><td><u>X</u> Drainage Patterns (B10)</td></tr><tr><td>_____ Moss Trim Lines (B16)</td></tr><tr><td>_____ Dry-Season Water Table (C2)</td></tr><tr><td>_____ Crayfish Burrows (C8)</td></tr><tr><td>_____ Saturation Visible on Aerial Imagery (C9)</td></tr><tr><td>_____ Stunted or Stressed Plants (D1)</td></tr><tr><td>_____ Geomorphic Position (D2)</td></tr><tr><td>_____ Shallow Aquitard (D3)</td></tr><tr><td>_____ Microtopographic Relief (D4)</td></tr><tr><td><u>X</u> FAC-Neutral Test (D5)</td></tr></table> | _____ Surface Soil Cracks (B6) | <u>X</u> Drainage Patterns (B10) | _____ Moss Trim Lines (B16) | _____ Dry-Season Water Table (C2) | _____ Crayfish Burrows (C8) | _____ Saturation Visible on Aerial Imagery (C9) | _____ Stunted or Stressed Plants (D1) | _____ Geomorphic Position (D2) | _____ Shallow Aquitard (D3) | _____ Microtopographic Relief (D4) | <u>X</u> FAC-Neutral Test (D5) |
| <u>X</u> Surface Water (A1)   | <u>X</u> Water-Stained Leaves (B9)               |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ High Water Table (A2)   | _____ Aquatic Fauna (B13)                        |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <u>X</u> Saturation (A3)  | _____ Marl Deposits (B15)                        |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Water Marks (B1)  | _____ Hydrogen Sulfide Odor (C1)                 |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Sediment Deposits (B2)  | _____ Oxidized Rhizospheres on Living Roots (C3) |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Drift Deposits (B3)   | _____ Presence of Reduced Iron (C4)              |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Algal Mat or Crust (B4)   | _____ Recent Iron Reduction in Tilled Soils (C6) |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Iron Deposits (B5)  | _____ Thin Muck Surface (C7)                     |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Inundation Visible on Aerial Imagery (B7)   | _____ Other (Explain in Remarks)                 |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Sparsely Vegetated Concave Surface (B8)   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Surface Soil Cracks (B6)  |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <u>X</u> Drainage Patterns (B10)  |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Moss Trim Lines (B16)   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Dry-Season Water Table (C2)   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Crayfish Burrows (C8)   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Saturation Visible on Aerial Imagery (C9)   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Stunted or Stressed Plants (D1)   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Geomorphic Position (D2)  |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Shallow Aquitard (D3)   |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| _____ Microtopographic Relief (D4)  |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <u>X</u> FAC-Neutral Test (D5)  |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <b>Field Observations:</b><br><table style="width: 100%;"><tr><td style="width: 20%;">Surface Water Present?</td><td style="width: 10%;">Yes <u>X</u></td><td style="width: 10%;">No _____</td><td style="width: 20%;">Depth (inches): <u>3</u></td></tr><tr><td>Water Table Present?</td><td>Yes _____</td><td>No <u>X</u></td><td>Depth (inches): _____</td></tr><tr><td>Saturation Present?</td><td>Yes <u>X</u></td><td>No _____</td><td>Depth (inches): <u>4</u></td></tr></table> <p>(includes capillary fringe)</p>  |  | Surface Water Present?      | Yes <u>X</u>                       | No _____                    | Depth (inches): <u>3</u>  | Water Table Present?     | Yes _____                 | No <u>X</u>            | Depth (inches): _____            | Saturation Present?          | Yes <u>X</u>                                     | No _____                  | Depth (inches): <u>4</u>            | <table style="width: 100%;"><tr><td><b>Wetland Hydrology Present?</b></td><td>Yes <u>X</u> No _____</td></tr></table> | <b>Wetland Hydrology Present?</b>                | Yes <u>X</u> No _____    |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Surface Water Present?  | Yes <u>X</u>                                     | No _____                    | Depth (inches): <u>3</u>           |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Water Table Present?  | Yes _____  | No <u>X</u>                 | Depth (inches): _____              |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Saturation Present?   | Yes <u>X</u>                                     | No _____                    | Depth (inches): <u>4</u>           |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| <b>Wetland Hydrology Present?</b>   | Yes <u>X</u> No _____                            |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |
| Remarks:  |  |                             |                                    |                             |                           |                          |                           |                        |                                  |                              |  |                           |                                     |   |  |                          |                              |   |                                  |   |  |   |                                |                                  |                             |                                   |                             |   |                                       |                                |                             |                                    |                                |

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

 Sampling Point: GR-W-Wet

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |
|--|------------------|-------------------|------------------|--|
| 1. <u>Ulmus americana</u>                            | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>8</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>87.5%</u> (A/B)  |
| 2. <u>Acer saccharinum</u>                           | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Acer rubrum</u>                                | <u>5</u>         | <u>Yes</u>        | <u>FAC</u>       |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| <u>25</u>  |                  | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |
| 1. <u>Cornus racemosa</u>                            | <u>25</u>        | <u>Yes</u>        | <u>FAC</u>       |  |
| 2. <u>Alnus incana</u>                               | <u>10</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Lonicera tatarica</u>                          | <u>5</u>         | <u>No</u>         | <u>FACU</u>      |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| <u>40</u>  |                  | =Total Cover      |                  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |
| 1. <u>Onoclea sensibilis</u>                         | <u>30</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 2. <u>Scirpus atrovirens</u>                         | <u>20</u>        | <u>Yes</u>        | <u>OBL</u>       |  |
| 3. <u>Lythrum salicaria</u>                          | <u>10</u>        | <u>No</u>         | <u>OBL</u>       |  |
| 4. <u>Epilobium coloratum</u>                        | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |  |
| 5. <u>Carex sp.</u>                                  | <u>5</u>         | <u>No</u>         | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| 8. _____   | _____            | _____             | _____            |  |
| 9. _____   | _____            | _____             | _____            |  |
| 10. _____  | _____            | _____             | _____            |  |
| 11. _____  | _____            | _____             | _____            |  |
| 12. _____  | _____            | _____             | _____            |  |
| <u>70</u>  |                  | =Total Cover      |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                   |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |  |
| 1. <u>Rubus allegheniensis</u>                       | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |  |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| <u>5</u>   |                  | =Total Cover      |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____   |

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

## SOIL

Sampling Point: GR-W-Wet

[illegible]





**Wetland G-R-W- View facing North**



**Wetland G-R-W- Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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

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

 Sampling Point: GR-W-Up

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
|--|------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|--------------------------|-----------|--------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species _____ | x 3 = _____ | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: _____ (A) | _____ (B) | Prevalence Index = B/A = _____ |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| OBL species _____                                    | x 1 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACW species _____                                   | x 2 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FAC species _____                                    | x 3 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| FACU species _____                                   | x 4 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| UPL species _____                                    | x 5 = _____      |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Column Totals: _____ (A)                             | _____ (B)        |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| Prevalence Index = B/A = _____                       |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Rhus typhina</u>                               | <u>10</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>  </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Solidago canadensis</u>                        | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. <u>Centaurea stoebe</u>                           | <u>10</u>        | <u>Yes</u>        | <u>UPL</u>       |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. <u>Alliaria petiolata</u>                         | <u>10</u>        | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 5. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 6. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 7. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 8. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 9. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 10. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 11. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 12. _____  | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>    |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 1. <u>Rubus allegheniensis</u>                       | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 2. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 3. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| 4. _____   | _____            | _____             | _____            |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>  </u> No <u>X</u>  |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |
| =Total Cover   |                  |                   |                  |   |                   |              |                   |             |                    |             |                   |             |                    |             |                   |             |                          |           |                                |  |

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

## SOIL

Sampling Point: GR-W-Up

[illegible]





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



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**



# 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 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

|  |  |   |
|--|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br><u></u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9)<br><u></u> High Water Table (A2) <u></u> Aquatic Fauna (B13)<br><u></u> Saturation (A3) <u></u> Marl Deposits (B15)<br><u></u> Water Marks (B1) <u></u> Hydrogen Sulfide Odor (C1)<br><u></u> Sediment Deposits (B2) <u></u> Oxidized Rhizospheres on Living Roots (C3)<br><u></u> Drift Deposits (B3) <u></u> Presence of Reduced Iron (C4)<br><u></u> Algal Mat or Crust (B4) <u></u> Recent Iron Reduction in Tilled Soils (C6)<br><u></u> Iron Deposits (B5) <u></u> Thin Muck Surface (C7)<br><u></u> Inundation Visible on Aerial Imagery (B7) <u></u> Other (Explain in Remarks)<br><u></u> Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br><u></u> Surface Soil Cracks (B6)<br><u>X</u> Drainage Patterns (B10)<br><u></u> Moss Trim Lines (B16)<br><u></u> Dry-Season Water Table (C2)<br><u></u> Crayfish Burrows (C8)<br><u></u> Saturation Visible on Aerial Imagery (C9)<br><u></u> Stunted or Stressed Plants (D1)<br><u></u> Geomorphic Position (D2)<br><u></u> Shallow Aquitard (D3)<br><u></u> Microtopographic Relief (D4)<br><u>X</u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u><br>Saturation Present? Yes <u>X</u> No <u></u> Depth (inches): <u>10</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u></u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  |   |
| Remarks:   |  |   |

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

 Sampling Point: GR-Y-Wet

| Tree Stratum (Plot size: <u>30'</u> )                        | Absolute % Cover | Dominant Species? | Indicator Status |  |
|--|------------------|-------------------|------------------|--|
| 1. <u>Populus deltoides</u>                                  | <u>5</u>         | <u>Yes</u>        | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>7</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>71.4%</u> (A/B)  |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
|  | <u>5</u>         | =Total Cover      |                  |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>         |                  |                   |                  |  |
| 1. <u>Rhus typhina</u>                                       | <u>10</u>        | <u>Yes</u>        | <u>UPL</u>       | <b>Prevalence Index worksheet:</b><br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species _____ x 4 = _____<br>UPL species _____ x 5 = _____<br>Column Totals: _____ (A) _____ (B)<br>Prevalence Index = B/A = _____  |
| 2. <u>Salix nigra</u>  | <u>5</u>         | <u>Yes</u>        | <u>OBL</u>       |  |
| 3. <u>Lonicera tatarica</u>                                  | <u>5</u>         | <u>Yes</u>        | <u>FACU</u>      |  |
| 4. _____   | _____            | _____             | _____            |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
|  | <u>20</u>        | =Total Cover      |                  |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                   |                  |                   |                  |  |
| 1. <u>Lythrum salicaria</u>                                  | <u>20</u>        | <u>Yes</u>        | <u>OBL</u>       | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2. <u>Phalaris arundinacea</u>                               | <u>20</u>        | <u>Yes</u>        | <u>FACW</u>      |  |
| 3. <u>Eutrochium maculatum</u>                               | <u>10</u>        | <u>No</u>         | <u>OBL</u>       |  |
| 4. <u>Symphyotrichum novae-angliae</u>                       | <u>5</u>         | <u>No</u>         | <u>FAC</u>       |  |
| 5. _____   | _____            | _____             | _____            |  |
| 6. _____   | _____            | _____             | _____            |  |
| 7. _____   | _____            | _____             | _____            |  |
| 8. _____   | _____            | _____             | _____            |  |
| 9. _____   | _____            | _____             | _____            |  |
| 10. _____  | _____            | _____             | _____            |  |
| 11. _____  | _____            | _____             | _____            |  |
| 12. _____  | _____            | _____             | _____            |  |
|  | <u>55</u>        | =Total Cover      |                  |  |
| <b>Woody Vine Stratum (Plot size: <u>15'</u>)</b>            |                  |                   |                  |  |
| 1. <u>Vitis riparia</u>                                      | <u>5</u>         | <u>Yes</u>        | <u>FAC</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.                                   |
| 2. _____   | _____            | _____             | _____            |  |
| 3. _____   | _____            | _____             | _____            |  |
| 4. _____   | _____            | _____             | _____            |  |
|  | <u>5</u>         | =Total Cover      |                  |  |
| <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____ |                  |                   |                  |  |

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

## SOIL

Sampling Point: GR-Y-Wet

[illegible]



**Wetland G-R-Y- View facing Northwest**



**Wetland G-R-Y- Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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 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 disturbed? Are "Normal Circumstances" present? Yes X No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

## HYDROLOGY

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



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

 Sampling Point: GR-Y-Up

| Tree Stratum (Plot size: <u>30'</u> )                 | Absolute % Cover        | Dominant Species? | Indicator Status  |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|---|-------------------------|-------------------|-------------------|--|-------------------|--------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|--------------------------------------|-----------------------|--|--|
| 1. <u>Populus deltoides</u>                           | <u>5</u>                | <u>Yes</u>        | <u>FAC</u>        | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)<br><br><b>Prevalence Index worksheet:</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>          </u></td> <td>x 1 = <u>          </u></td> </tr> <tr> <td>FACW species <u>          </u></td> <td>x 2 = <u>          </u></td> </tr> <tr> <td>FAC species <u>          </u></td> <td>x 3 = <u>          </u></td> </tr> <tr> <td>FACU species <u>          </u></td> <td>x 4 = <u>          </u></td> </tr> <tr> <td>UPL species <u>          </u></td> <td>x 5 = <u>          </u></td> </tr> <tr> <td>Column Totals: <u>          </u> (A)</td> <td><u>          </u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>          </u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>          </u> | x 1 = <u>          </u> | FACW species <u>          </u> | x 2 = <u>          </u> | FAC species <u>          </u> | x 3 = <u>          </u> | FACU species <u>          </u> | x 4 = <u>          </u> | UPL species <u>          </u> | x 5 = <u>          </u> | Column Totals: <u>          </u> (A) | <u>          </u> (B) | Prevalence Index = B/A = <u>          </u> |  |
| Total % Cover of:                                     | Multiply by:            |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| OBL species <u>          </u>                         | x 1 = <u>          </u> |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACW species <u>          </u>                        | x 2 = <u>          </u> |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FAC species <u>          </u>                         | x 3 = <u>          </u> |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| FACU species <u>          </u>                        | x 4 = <u>          </u> |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| UPL species <u>          </u>                         | x 5 = <u>          </u> |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Column Totals: <u>          </u> (A)                  | <u>          </u> (B)   |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| Prevalence Index = B/A = <u>          </u>            |                         |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|   | <u>5</u>                | =Total Cover      |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> ) |                         |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>Rhus typhina</u>                                | <u>10</u>               | <u>Yes</u>        | <u>UPL</u>        | <b>Hydrophytic Vegetation Indicators:</b><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>          </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Rhamnus cathartica</u>                          | <u>20</u>               | <u>Yes</u>        | <u>FAC</u>        |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>Lonicera tatarica</u>                           | <u>20</u>               | <u>Yes</u>        | <u>FACU</u>       |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|   | <u>50</u>               | =Total Cover      |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Herb Stratum</b> (Plot size: <u>5'</u> )           |                         |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>Setaria faberi</u>                              | <u>30</u>               | <u>Yes</u>        | <u>FACU</u>       | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.<br><br><b>Hydrophytic Vegetation Present?</b> Yes <u>          </u> No <u>X</u>   |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>Phalaris arundinacea</u>                        | <u>10</u>               | <u>No</u>         | <u>FACW</u>       |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>Daucus carota</u>                               | <u>10</u>               | <u>No</u>         | <u>UPL</u>        |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>Symphyotrichum novae-angliae</u>                | <u>5</u>                | <u>No</u>         | <u>FACW</u>       |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 5. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 6. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 7. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 8. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 9. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 10. <u>                                  </u>         | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 11. <u>                                  </u>         | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 12. <u>                                  </u>         | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|   | <u>55</u>               | =Total Cover      |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| <b>Woody Vine Stratum</b> (Plot size: <u>15'</u> )    |                         |                   |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 1. <u>Vitis riparia</u>                               | <u>5</u>                | <u>Yes</u>        | <u>FAC</u>        |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 2. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 3. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
| 4. <u>                                  </u>          | <u>          </u>       | <u>          </u> | <u>          </u> |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |
|   | <u>5</u>                | =Total Cover      |                   |  |                   |              |                               |                         |                                |                         |                               |                         |                                |                         |                               |                         |                                      |                       |  |  |

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

## SOIL

Sampling Point: GR-Y-Up

[illegible]



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



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

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Depression Local 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|   |   |
|---|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____   | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: <u>Near Flag CIII-2</u> |
| Hydric Soil Present? Yes <u>X</u> No _____  |   |
| Wetland Hydrology Present? Yes <u>X</u> No _____  |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Palustrine Emergent Marsh. Efinger classification: Shallow Emergent Marsh. |   |

## HYDROLOGY

|   |   |   |  |
|---|---|---|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators</u> (minimum of one is required; check all that apply)  |   | <u>Secondary Indicators</u> (minimum of two required)   |  |
| <u>X</u> Surface Water (A1)   | _____ Water-Stained Leaves (B9)                     | _____ Surface Soil Cracks (B6)                          |  |
| <u>X</u> High Water Table (A2)  | _____ Aquatic Fauna (B13)                           | _____ Drainage Patterns (B10)                           |  |
| <u>X</u> Saturation (A3)  | _____ Marl Deposits (B15)                           | _____ Moss Trim Lines (B16)                             |  |
| _____ Water Marks (B1)  | _____ Hydrogen Sulfide Odor (C1)                    | _____ Dry-Season Water Table (C2)                       |  |
| _____ Sediment Deposits (B2)  | <u>X</u> Oxidized Rhizospheres on Living Roots (C3) | _____ Crayfish Burrows (C8)                             |  |
| _____ Drift Deposits (B3)   | _____ Presence of Reduced Iron (C4)                 | _____ Saturation Visible on Aerial Imagery (C9)         |  |
| _____ Algal Mat or Crust (B4)   | _____ Recent Iron Reduction in Tilled Soils (C6)    | _____ Stunted or Stressed Plants (D1)                   |  |
| _____ Iron Deposits (B5)  | _____ Thin Muck Surface (C7)                        | <u>X</u> Geomorphic Position (D2)                       |  |
| _____ Inundation Visible on Aerial Imagery (B7)   | _____ Other (Explain in Remarks)                    | _____ Shallow Aquitard (D3)                             |  |
| _____ Sparsely Vegetated Concave Surface (B8)   |   | _____ Microtopographic Relief (D4)                      |  |
|   |   | <u>X</u> FAC-Neutral Test (D5)                          |  |
| <b>Field Observations:</b><br>Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>4</u><br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u><br>(includes capillary fringe) |   | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____ |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |   |   |  |
| Remarks:  |   |   |  |

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

 Sampling Point: WET CIII-2

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|-----------------------|-----------------|------------------------|------------------|----------------------|----------------|------------------------|-----------------|----------------------|----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. <u>Salix alba</u>                                 | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>6</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)   |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 2. <u>Ulmus americana</u>                            | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
|  |                  | <u>10</u>         | =Total Cover     |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 1. <u>Cornus sericea</u>                             | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>30</u></td> <td>x 1 = <u>30</u></td> </tr> <tr> <td>FACW species <u>75</u></td> <td>x 2 = <u>150</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>115</u> (A)</td> <td><u>220</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.91</u></td> </tr> </tbody> </table> | Total % Cover of: | Multiply by: | OBL species <u>30</u> | x 1 = <u>30</u> | FACW species <u>75</u> | x 2 = <u>150</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>10</u> | x 4 = <u>40</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>115</u> (A) | <u>220</u> (B) | Prevalence Index = B/A = <u>1.91</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| OBL species <u>30</u>                                | x 1 = <u>30</u>  |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| FACW species <u>75</u>                               | x 2 = <u>150</u> |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| FAC species <u>0</u>                                 | x 3 = <u>0</u>   |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| FACU species <u>10</u>                               | x 4 = <u>40</u>  |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| UPL species <u>0</u>                                 | x 5 = <u>0</u>   |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| Column Totals: <u>115</u> (A)                        | <u>220</u> (B)   |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| Prevalence Index = B/A = <u>1.91</u>                 |                  |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 2. <u>Salix alba</u>                                 | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
|  |                  | <u>10</u>         | =Total Cover     |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 1. <u>Phalaris arundinacea</u>                       | <u>50</u>        | <u>Yes</u>        | <u>FACW</u>      | <b>Hydrophytic Vegetation Indicators:</b><br><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> <u>2</u> - Dominance Test is >50%<br><u>X</u> <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>        </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 2. <u>Lythrum salicaria</u>                          | <u>25</u>        | <u>Yes</u>        | <u>OBL</u>       |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 3. <u>Symphyotrichum ericoides</u>                   | <u>10</u>        | <u>No</u>         | <u>FACU</u>      |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 4. <u>Solidago gigantea</u>                          | <u>5</u>         | <u>No</u>         | <u>FACW</u>      |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 5. <u>Carex bebbii</u>                               | <u>5</u>         | <u>No</u>         | <u>OBL</u>       |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
|  |                  | <u>95</u>         | =Total Cover     |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 1. _____   | _____            | _____             | _____            | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |
|  |                  | _____             | =Total Cover     |  |                   |              |                       |                 |                        |                  |                      |                |                        |                 |                      |                |                               |                |                                      |  |

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



## SOIL

Sampling Point: WET CIII-2

[illegible]



**Wetland CIII-2 View facing north**



**Wetland CIII-2 Soils**

**Phase 1**

## **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrace Local 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? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |   |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <u>X</u>  | <b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present? Yes <u>X</u> No _____   |   |
| Wetland Hydrology Present? Yes _____ No <u>X</u>   |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Successional Old Field. |   |

## HYDROLOGY

|   |  |   |
|---|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br>_____ Surface Water (A1) _____ Water-Stained Leaves (B9)<br>_____ High Water Table (A2) _____ Aquatic Fauna (B13)<br>_____ Saturation (A3) _____ Marl Deposits (B15)<br>_____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1)<br>_____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3)<br>_____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4)<br>_____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6)<br>_____ Iron Deposits (B5) _____ Thin Muck Surface (C7)<br>_____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)<br>_____ Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br>_____ Surface Soil Cracks (B6)<br>_____ Drainage Patterns (B10)<br>_____ Moss Trim Lines (B16)<br>_____ Dry-Season Water Table (C2)<br>_____ Crayfish Burrows (C8)<br>_____ Saturation Visible on Aerial Imagery (C9)<br>_____ Stunted or Stressed Plants (D1)<br>_____ Geomorphic Position (D2)<br>_____ Shallow Aquitard (D3)<br>_____ Microtopographic Relief (D4)<br>_____ FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____<br>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>13</u><br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>13</u><br>(includes capillary fringe)  |  | <b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |   |
| Remarks:  |  |   |

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

 Sampling Point: UPL CIII-2

| Tree Stratum (Plot size: <u>30'</u> )                                      | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|----------------------|----------------|-----------------------|----------------|-----------------------|-----------------|------------------------|-----------------|-----------------------|------------------|-------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| _____ =Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>60</u></td> <td>x 5 = <u>300</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>440</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.40</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>0</u> | x 2 = <u>0</u> | FAC species <u>20</u> | x 3 = <u>60</u> | FACU species <u>20</u> | x 4 = <u>80</u> | UPL species <u>60</u> | x 5 = <u>300</u> | Column Totals: <u>100</u> (A) | <u>440</u> (B) | Prevalence Index = B/A = <u>4.40</u> |  |
| Total % Cover of:  | Multiply by:     |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| OBL species <u>0</u>   | x 1 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| FACW species <u>0</u>  | x 2 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| FAC species <u>20</u>  | x 3 = <u>60</u>  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| FACU species <u>20</u>   | x 4 = <u>80</u>  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| UPL species <u>60</u>  | x 5 = <u>300</u> |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| Column Totals: <u>100</u> (A)  | <u>440</u> (B)   |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| Prevalence Index = B/A = <u>4.40</u>                                       |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| _____ =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>                       |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 1. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| _____ =Total Cover   |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>2</u> - Dominance Test is >50%<br><u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>        </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| _____ =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>                                 |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 1. <u>Daucus carota</u>  | <u>50</u>        | <u>Yes</u>        | <u>UPL</u>       |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. <u>Setaria pumila</u>   | <u>20</u>        | <u>Yes</u>        | <u>FAC</u>       |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. <u>Plantago lanceolata</u>  | <u>20</u>        | <u>Yes</u>        | <u>FACU</u>      |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. <u>Rubia peregrina</u>  | <u>10</u>        | <u>No</u>         | <u>UPL</u>       |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| _____ =Total Cover   |                  |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| _____ =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>                          |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 1. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| _____ =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |
| <b>Hydrophytic Vegetation Present?</b> Yes <u>        </u> No <u>  X  </u> |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                 |                        |                 |                       |                  |                               |                |                                      |  |

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

## SOIL

Sampling Point: UPL CIII-2

[illegible]





**Upland CIII-2 View facing east**



**Upland CIII-2 Soils**

**Phase 1**

## **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

# 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-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: 73-25-46.79W 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |   |
|--|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____  | <b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____<br>If yes, optional Wetland Site ID: <u>Near Flag CJJJ-9</u> |
| Hydric Soil Present? Yes <u>X</u> No _____   |   |
| Wetland Hydrology Present? Yes <u>X</u> No _____   |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Palustrine Emergent Marsh - Common reed marsh. Edinger classification: Common Reed Marsh. |   |

## HYDROLOGY

|   |  |   |
|---|--|---|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one is required; check all that apply)</u><br>_____ Surface Water (A1) _____ Water-Stained Leaves (B9)<br>_____ High Water Table (A2) _____ Aquatic Fauna (B13)<br><u>X</u> Saturation (A3) _____ Marl Deposits (B15)<br>_____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1)<br>_____ Sediment Deposits (B2) <u>X</u> Oxidized Rhizospheres on Living Roots (C3)<br>_____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4)<br>_____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6)<br>_____ Iron Deposits (B5) _____ Thin Muck Surface (C7)<br>_____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)<br>_____ Sparsely Vegetated Concave Surface (B8) |  | <u>Secondary Indicators (minimum of two required)</u><br>_____ Surface Soil Cracks (B6)<br>_____ Drainage Patterns (B10)<br>_____ Moss Trim Lines (B16)<br>_____ Dry-Season Water Table (C2)<br>_____ Crayfish Burrows (C8)<br>_____ Saturation Visible on Aerial Imagery (C9)<br>_____ Stunted or Stressed Plants (D1)<br><u>X</u> Geomorphic Position (D2)<br>_____ Shallow Aquitard (D3)<br>_____ Microtopographic Relief (D4)<br><u>X</u> FAC-Neutral Test (D5) |
| <b>Field Observations:</b><br>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____<br>Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____<br>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>6</u><br>(includes capillary fringe)   |  | <b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |   |
| Remarks:  |  |   |

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

Sampling Point: WET CJJJ-9

| Tree Stratum (Plot size: <u>30'</u> )                | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|----------------------|----------------|-------------------------|------------------|----------------------|----------------|-----------------------|-----------------|----------------------|----------------|-------------------------------|----------------|--------------------------------------|--|
| 1. _____   | _____            | _____             | _____            | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)   |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>105</u></td> <td>x 2 = <u>210</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>3</u></td> <td>x 4 = <u>12</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>108</u> (A)</td> <td><u>222</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.06</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>105</u> | x 2 = <u>210</u> | FAC species <u>0</u> | x 3 = <u>0</u> | FACU species <u>3</u> | x 4 = <u>12</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>108</u> (A) | <u>222</u> (B) | Prevalence Index = B/A = <u>2.06</u> |  |
| Total % Cover of:                                    | Multiply by:     |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| OBL species <u>0</u>                                 | x 1 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| FACW species <u>105</u>                              | x 2 = <u>210</u> |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| FAC species <u>0</u>                                 | x 3 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| FACU species <u>3</u>                                | x 4 = <u>12</u>  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| UPL species <u>0</u>                                 | x 5 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| Column Totals: <u>108</u> (A)                        | <u>222</u> (B)   |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| Prevalence Index = B/A = <u>2.06</u>                 |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| <b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b> |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 1. <u>Cornus amomum</u>                              | <u>5</u>         | <u>Yes</u>        | <u>FACW</u>      |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><br><u>1</u> - Rapid Test for Hydrophytic Vegetation<br><u>X</u> <u>2</u> - Dominance Test is >50%<br><u>X</u> <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup><br><u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>  </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| <b>Herb Stratum (Plot size: <u>5'</u>)</b>           |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 1. <u>Phragmites australis</u>                       | <u>100</u>       | <u>Yes</u>        | <u>FACW</u>      |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 5. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 6. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 7. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 8. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 9. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 10. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 11. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 12. _____  | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  | <b>Definitions of Vegetation Strata:</b><br><br><b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.<br><br><b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.<br><br><b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.<br><br><b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| <b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>    |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 1. <u>Vitis aestivalis</u>                           | <u>3</u>         | <u>No</u>         | <u>FACU</u>      |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 2. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 3. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| 4. _____   | _____            | _____             | _____            |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |
| =Total Cover   |                  |                   |                  |  |                   |              |                      |                |                         |                  |                      |                |                       |                 |                      |                |                               |                |                                      |  |

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

## SOIL

Sampling Point: WET CJJJ-9

[illegible]





**Wetland CJJJ-9 View facing northwest**



**Wetland CJJJ-9 Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**



# 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 CJJJ-9  
 Investigator(s): J. Greaves, C. Scrivner Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 5  
 Subregion (LRR or MLRA): LRR R Lat: 43-28-34.87N Long: 73-25-46.44W Datum: WGS 84  
 Soil Map Unit Name: OP - Orthents and Psammments 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 disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

|  |   |
|--|---|
| Hydrophytic Vegetation Present? Yes <u>X</u> No _____  | <b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u><br>If yes, optional Wetland Site ID: _____ |
| Hydric Soil Present? Yes <u>X</u> No _____   |   |
| Wetland Hydrology Present? Yes _____ No <u>X</u>   |   |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Successional Old Field. |   |

## HYDROLOGY

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

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

Sampling Point: UPL CJJJ-9

| Tree Stratum (Plot size: <u>30'</u> )          | Absolute % Cover | Dominant Species? | Indicator Status |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
|--|------------------|-------------------|------------------|--|-------------------|--------------|----------------------|----------------|-----------------------|----------------|-----------------------|------------------|------------------------|------------------|-----------------------|------------------|-------------------------------|----------------|--------------------------------------|--|
| 1. <u>Populus deltoides</u>                    | 8                | Yes               | FAC              | <b>Dominance Test worksheet:</b><br><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br><br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br><br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
|  | 8                | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br><br><table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>48</u></td> <td>x 3 = <u>144</u></td> </tr> <tr> <td>FACU species <u>25</u></td> <td>x 4 = <u>100</u></td> </tr> <tr> <td>UPL species <u>40</u></td> <td>x 5 = <u>200</u></td> </tr> <tr> <td>Column Totals: <u>113</u> (A)</td> <td><u>444</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.93</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>0</u> | x 1 = <u>0</u> | FACW species <u>0</u> | x 2 = <u>0</u> | FAC species <u>48</u> | x 3 = <u>144</u> | FACU species <u>25</u> | x 4 = <u>100</u> | UPL species <u>40</u> | x 5 = <u>200</u> | Column Totals: <u>113</u> (A) | <u>444</u> (B) | Prevalence Index = B/A = <u>3.93</u> |  |
| Total % Cover of:                              | Multiply by:     |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| OBL species <u>0</u>                           | x 1 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| FACW species <u>0</u>                          | x 2 = <u>0</u>   |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| FAC species <u>48</u>                          | x 3 = <u>144</u> |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| FACU species <u>25</u>                         | x 4 = <u>100</u> |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| UPL species <u>40</u>                          | x 5 = <u>200</u> |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| Column Totals: <u>113</u> (A)                  | <u>444</u> (B)   |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| Prevalence Index = B/A = <u>3.93</u>           |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| Sapling/Shrub Stratum (Plot size: <u>15'</u> ) |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 1. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| Herb Stratum (Plot size: <u>5'</u> )           |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 1. <u>Daucus carota</u>                        | 40               | Yes               | UPL              | <b>Hydrophytic Vegetation Indicators:</b><br><br><u>  </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>X</u> 2 - Dominance Test is >50%<br><u>  </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>  </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><br><u>  </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 2. <u>Setaria pumila</u>                       | 40               | Yes               | FAC              |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 3. <u>Lotus corniculatus</u>                   | 20               | No                | FACU             |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 4. <u>Symphyotrichum ericoides</u>             | 5                | No                | FACU             |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 5. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 6. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 7. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 8. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 9. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 10. _____                                      | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 11. _____                                      | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 12. _____                                      | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
|  | 105              | =Total Cover      |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| Woody Vine Stratum (Plot size: <u>30'</u> )    |                  |                   |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 1. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 2. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 3. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
| 4. _____                                       | _____            | _____             | _____            |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |
|  |                  | =Total Cover      |                  |  |                   |              |                      |                |                       |                |                       |                  |                        |                  |                       |                  |                               |                |                                      |  |

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

## SOIL

Sampling Point: UPL CJJJ-9

[illegible]



**Upland CJJJ-9 View facing north**



**Upland CJJJ-9 Soils**

**Phase 1**

**SITE PHOTOGRAPHS**

**Champlain Hudson Power Express**

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**ATTACHMENT 2**  
**NWI, NYSDEC AND APA WETLAND & STREAM MAPS**



