## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-13
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-31; PSS-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0527620623 **Long:** -78.0875501969 **Datum:** WGS84
**Soil Map Unit Name:** Ovid silt loam, 3 to 8 percent slopes **NWI classification:** PEM
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-31 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PSS. Wetter than average year, beaver impacts

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-31; PSS-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Cornus racemosa* | 45 | Yes | FAC |
| 2. *Cornus amomum* | 20 | Yes | FACW |
| 3. *Fraxinus pennsylvanica* | 15 | No | FACW |
| 4. *Salix nigra* | 10 | No | OBL |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 90 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Agrimonia parviflora* | 65 | Yes | FAC |
| 2. *Carex vulpinoidea* | 20 | Yes | OBL |
| 3. *Rumex crispus* | 10 | No | FAC |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 95 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 4 | (A) |
| Total Number of Dominant Species Across All Strata: | 4 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 30 | x 1 = | 30 |
| FACW species | 35 | x 2 = | 70 |
| FAC species | 120 | x 3 = | 360 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 185 (A) | | 460 (B) |
| Prevalence Index = B/A = | 2.5 | | |

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-31; PSS-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 10 | 10YR 4/2 | 96 | 10YR 6/6 | 4 | C | M/PL | Silty Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

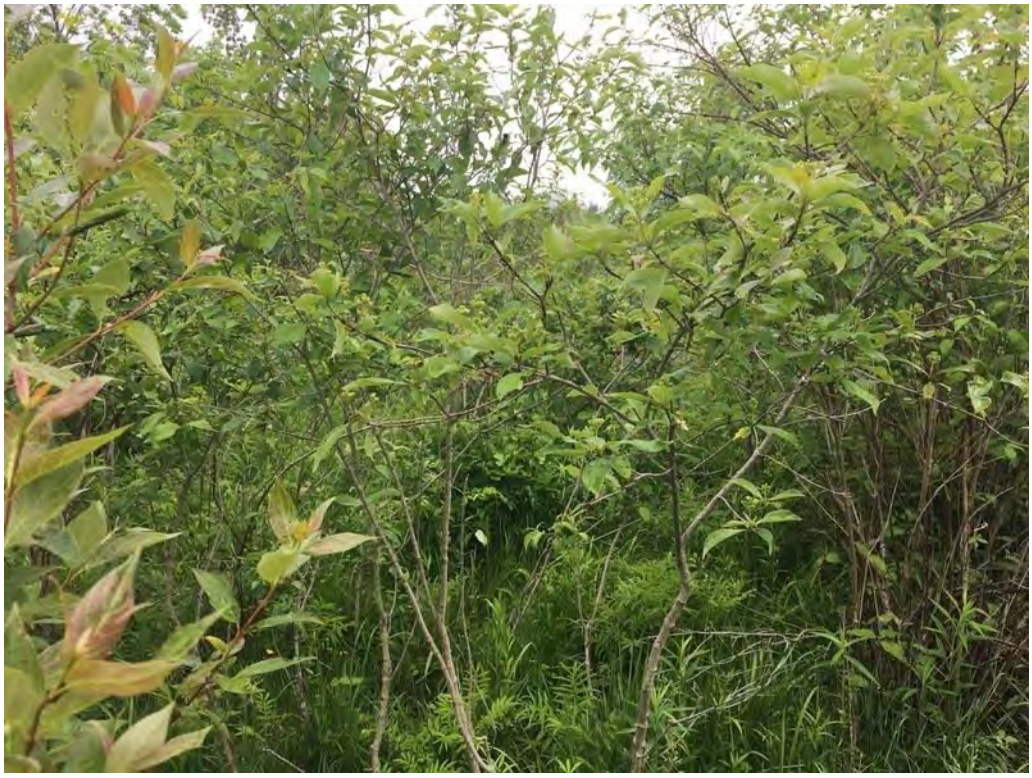
**Restrictive Layer (if observed):**

Type: Rocks
Depth (inches): 10

**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Vegetation Photos



Soil Photos

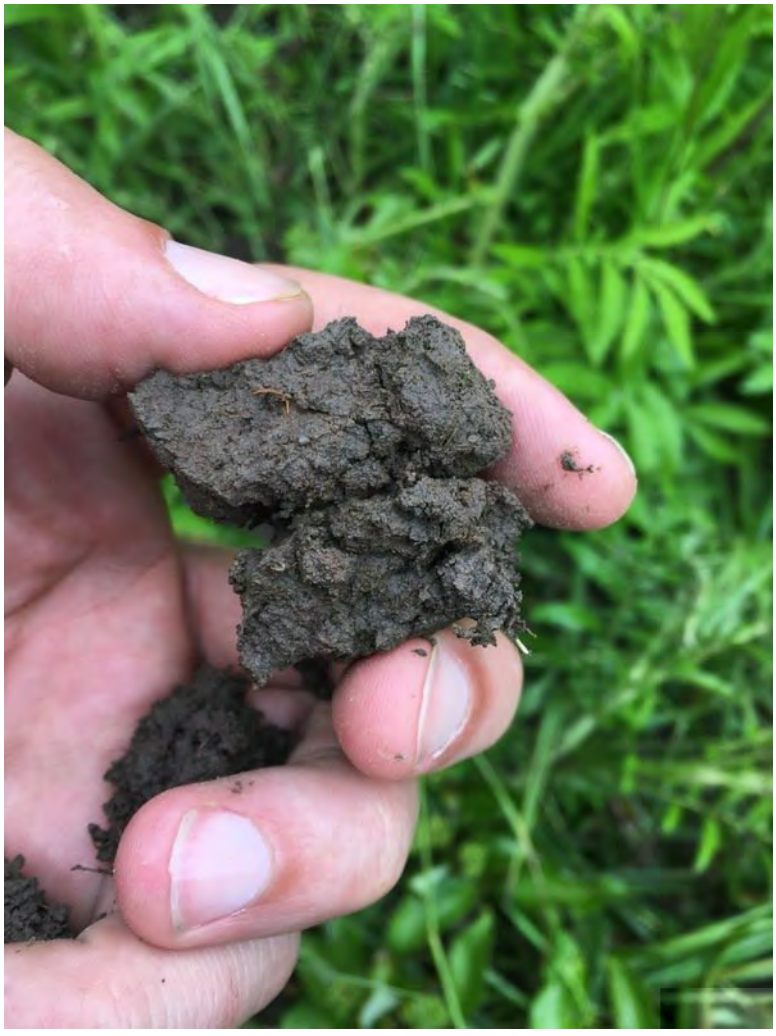
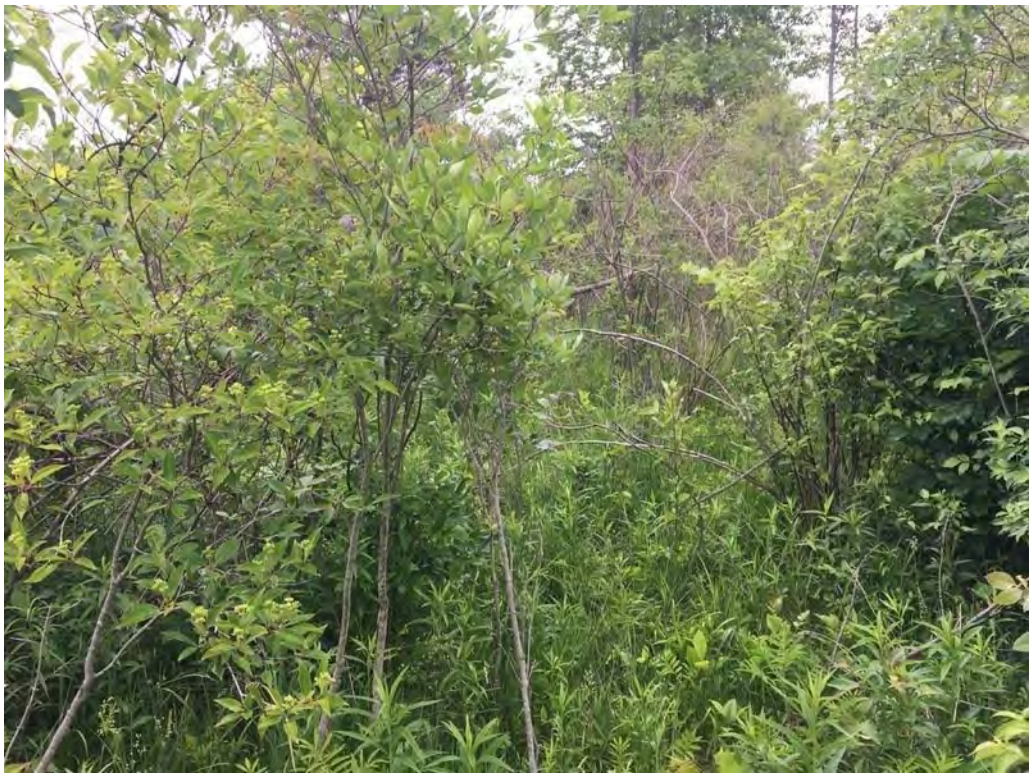
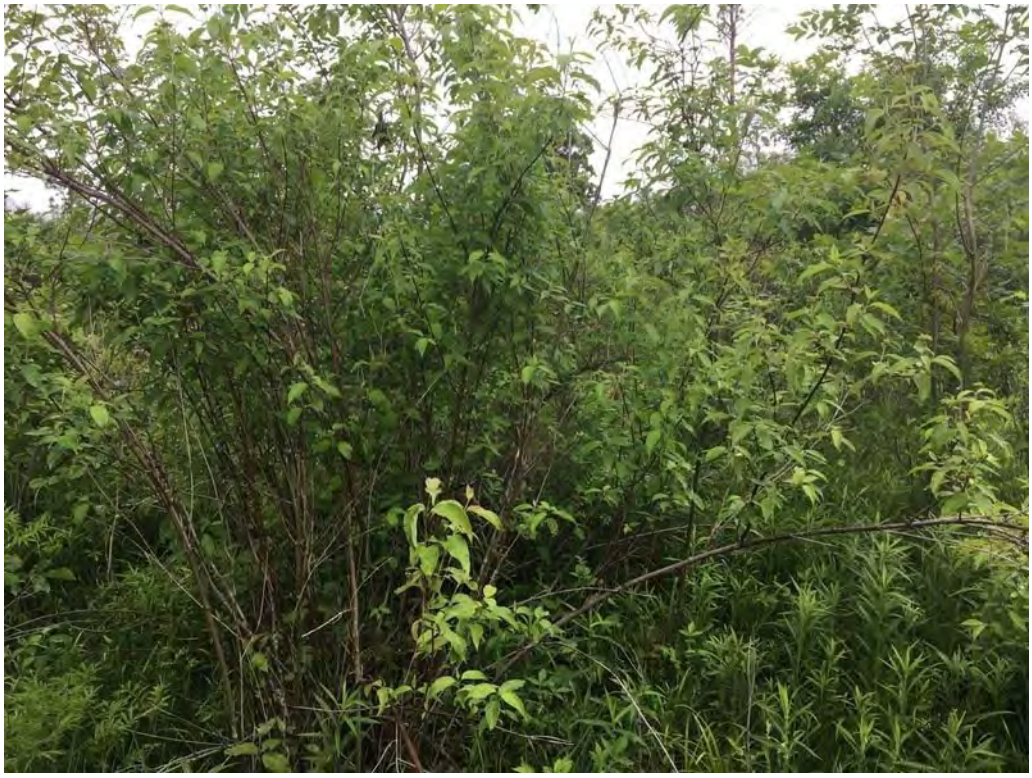
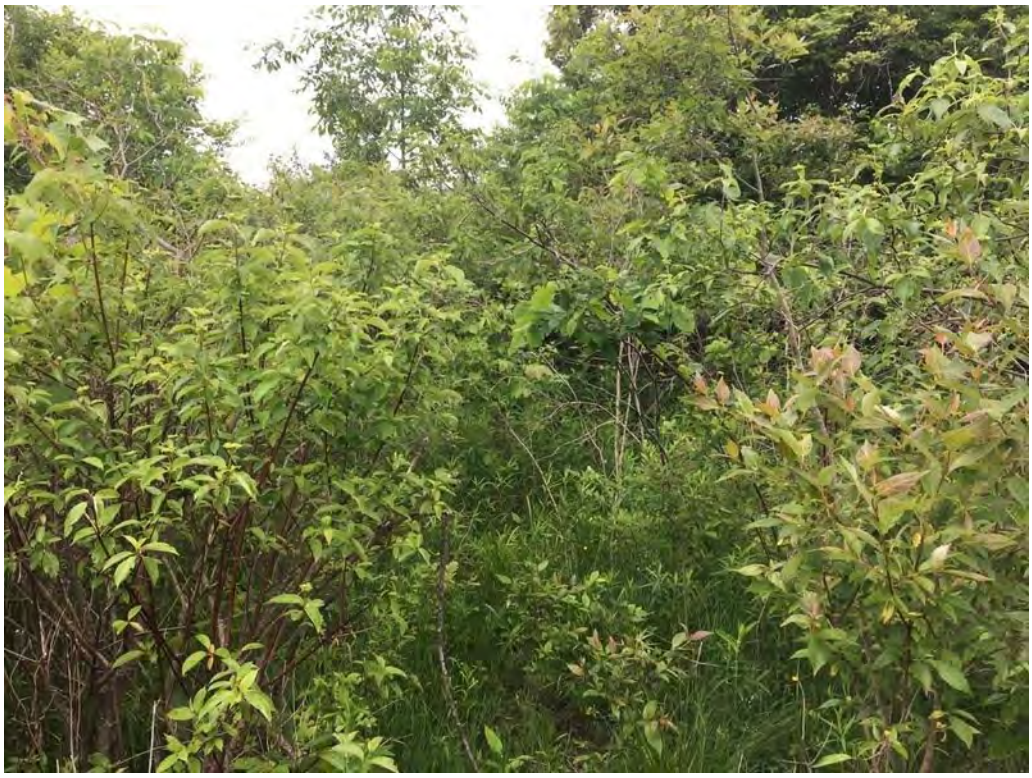
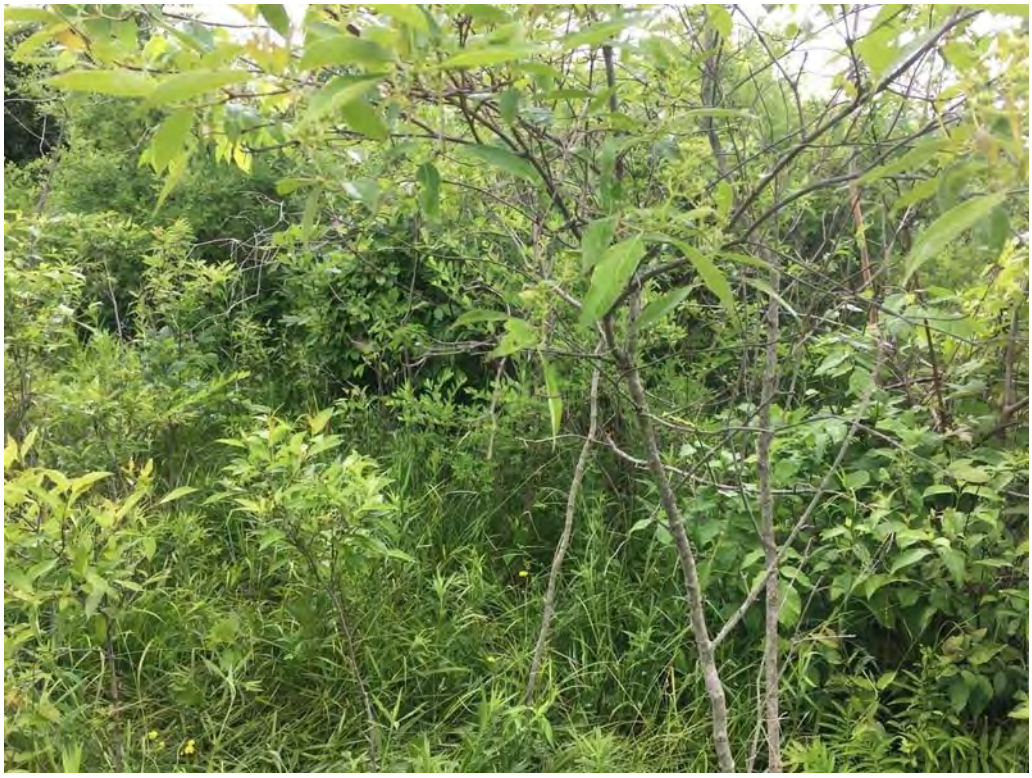


Photo of Sample Plot









## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-05
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-18; PUB-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0633210391 **Long:** -78.1003478543 **Datum:** WGS84
**Soil Map Unit Name:** Ovid silt loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-18 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PUB. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ✓ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ✓ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 24 |
| Water Table Present? | Yes ____ No ____ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**
Pond

**Remarks:**

A positive indication of wetland hydrology was observed (at least one primary indicator). Large spoils pile adjacent to wetland, likely an excavated pond

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-18; PUB-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 15 | Yes | OBL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 15 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 1 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 15 | x 1 = | 15 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 15 | (A) | 15 (B) |

Prevalence Index = B/A = 1

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-18; PUB-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
_✓_ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Due to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric.

Hydrology Photos

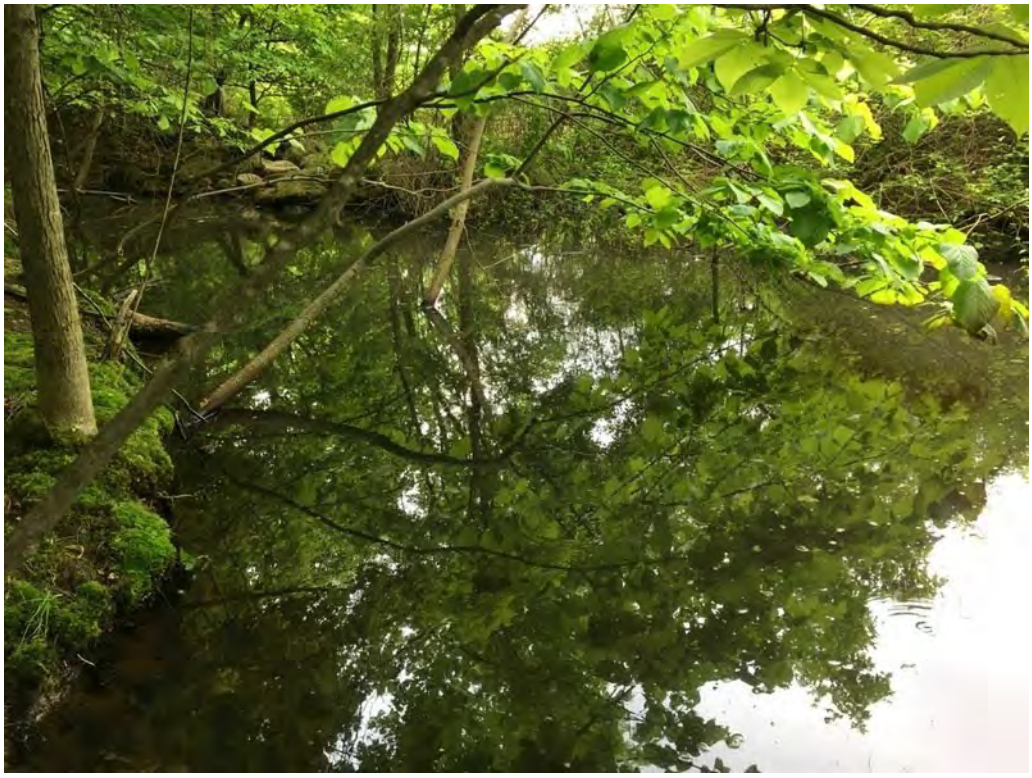
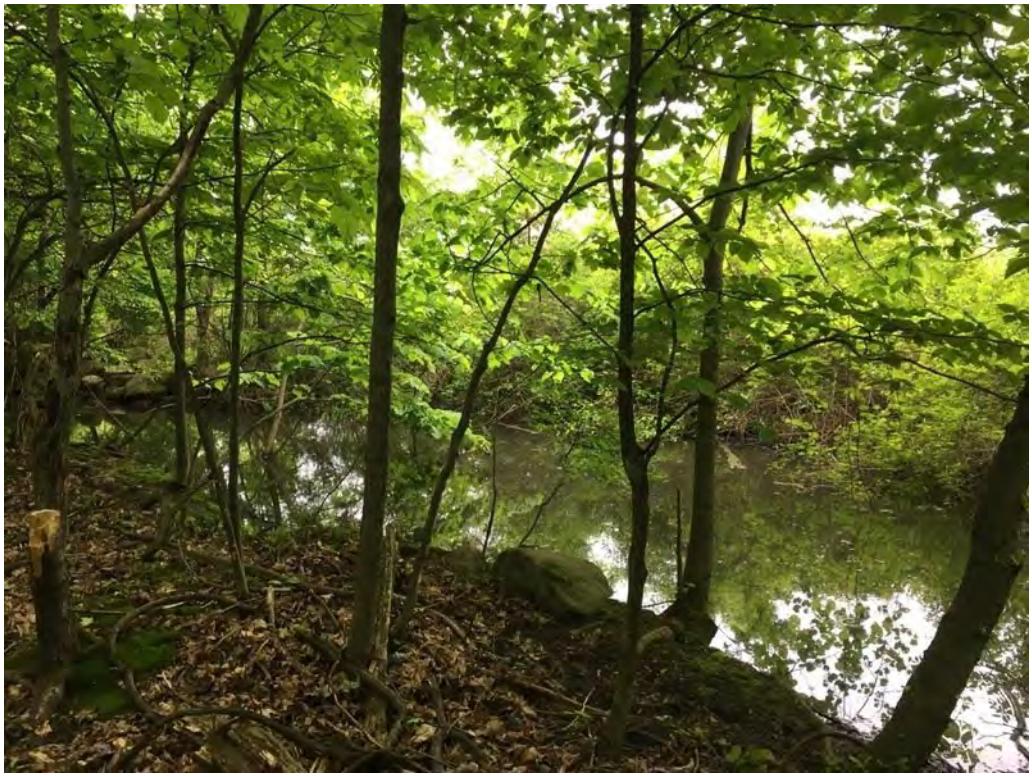
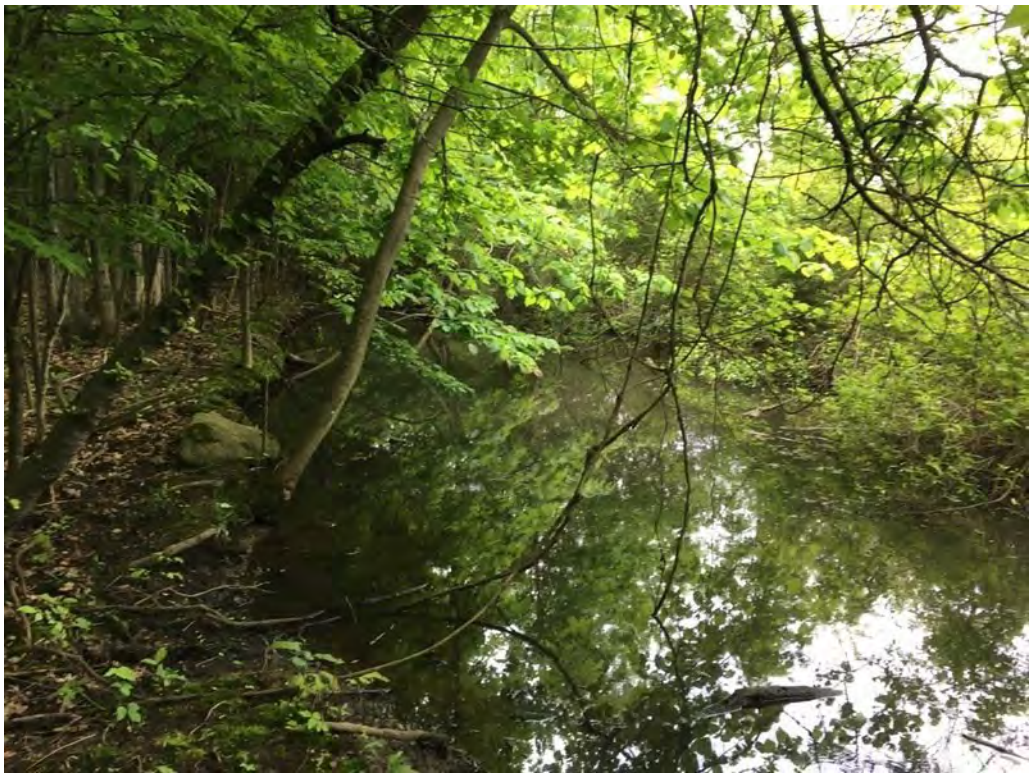
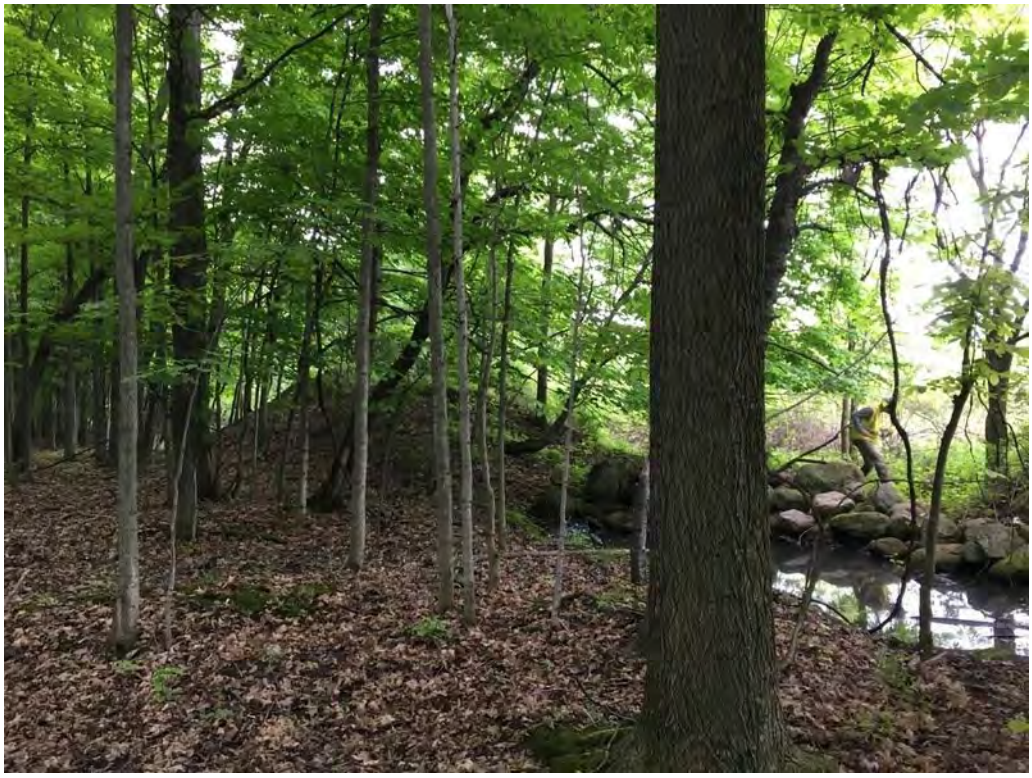


Photo of Sample Plot







## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-30
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-11; PFO-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0768109 **Long:** -78.1002442 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 3 to 8 percent slopes **NWI classification:** None
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JDV-11 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO. Area is wetland, all three wetland parameters are present.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ✓ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ✓ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | | |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 8 | **Wetland Hydrology Present?** Yes ✓ No ____ |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 3 | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

A positive indication of wetland hydrology was observed (primary and secondary indicators were present).

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-11; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Fraxinus pennsylvanica* | 45 | Yes | FACW |
| 2. *Acer negundo* | 20 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 65 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Fraxinus pennsylvanica* | 12 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 12 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Poa palustris* | 20 | Yes | FACW |
| 2. *Toxicodendron radicans* | 15 | Yes | FAC |
| 3. *Fraxinus pennsylvanica* | 10 | Yes | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 45 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. *Toxicodendron radicans* | 12 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 12 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 7 | (A) |
| Total Number of Dominant Species Across All Strata: | 7 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 87 | x 2 = | 174 |
| FAC species | 47 | x 3 = | 141 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 134 | (A) | 315 (B) |
| Prevalence Index = B/A = | 2.4 | | |

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is ≤ 3.00).

SOIL

Sampling Point: W-JDV-11; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 13 | 10YR 4/2 | 95 | 2.5YR 3/4 | 5 | C | M | Silt Loam | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

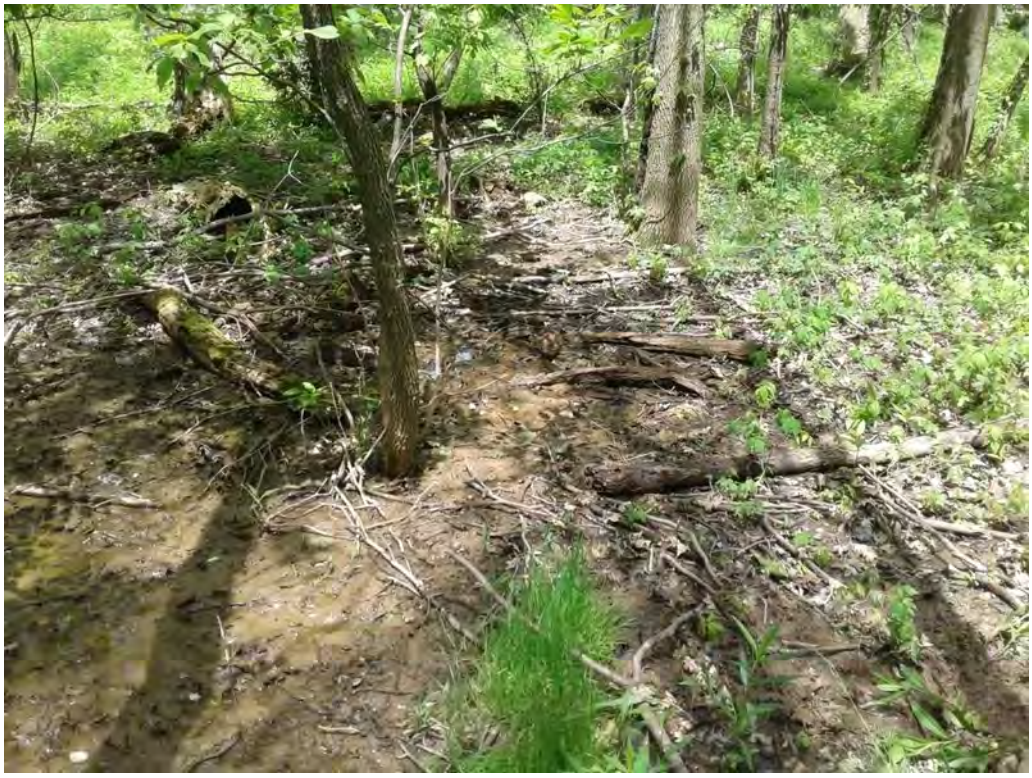
Depth (inches):

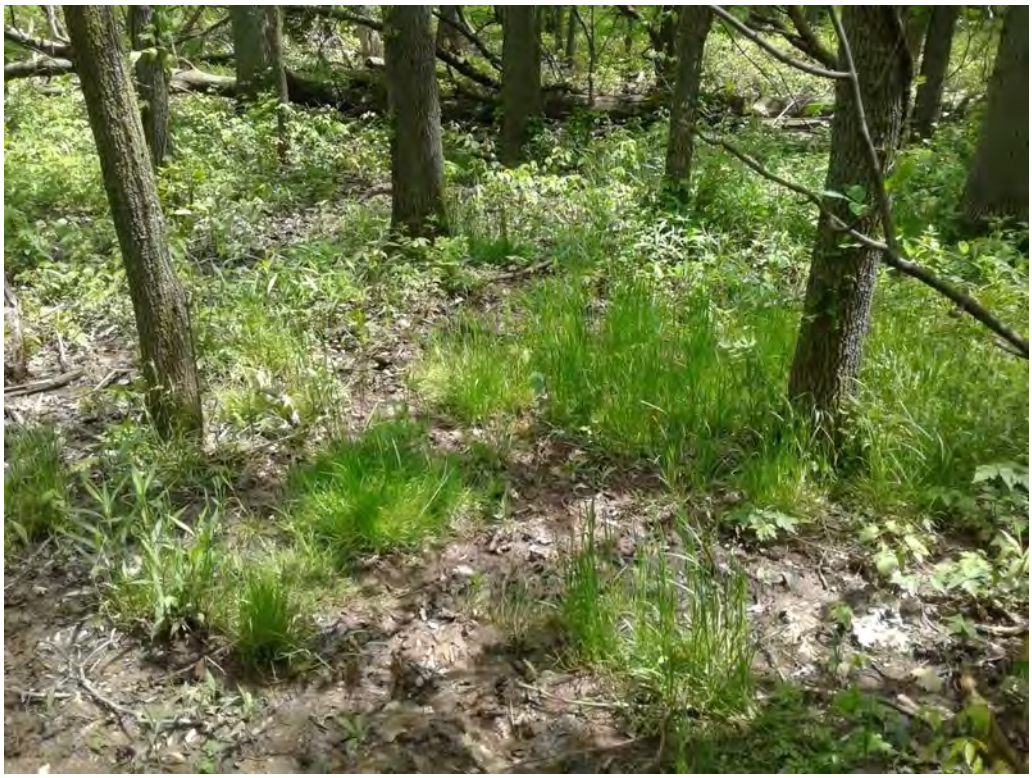
**Hydric Soil Present?** Yes _✓_ No ____

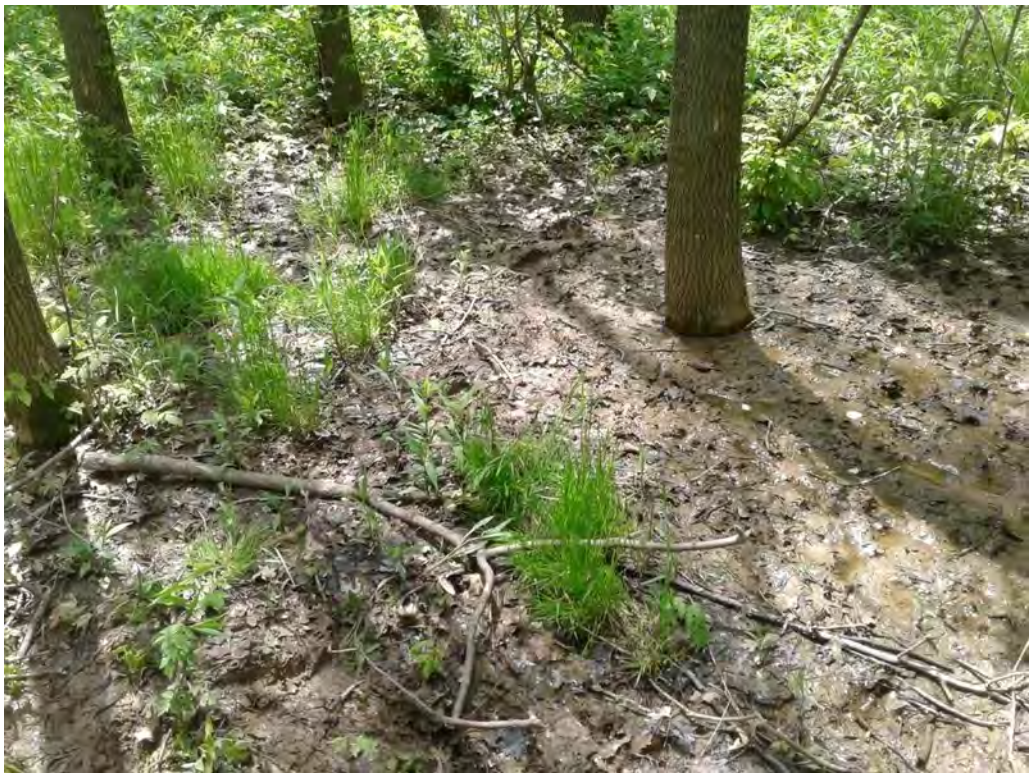
**Remarks:**

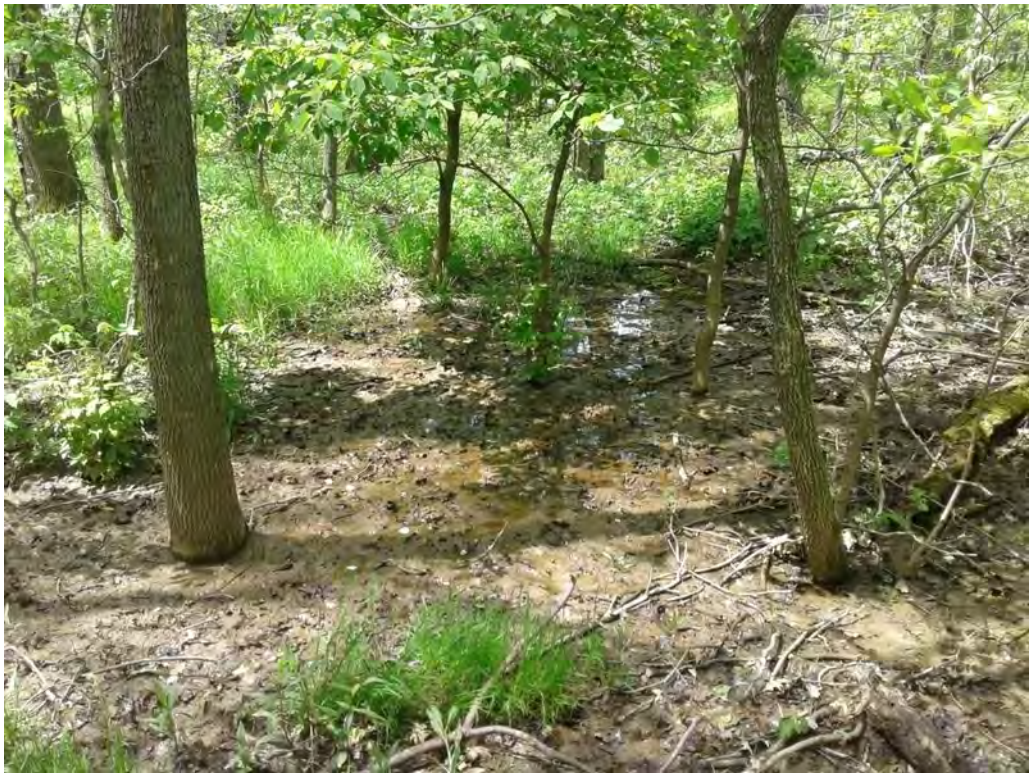
A positive indication of hydric soil was observed.

Photo of Sample Plot









## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-04
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-16; PSS-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0550141959 **Long:** -78.0457172916 **Datum:** WGS84
**Soil Map Unit Name:** Ontario loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No _✓_ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes _✓_ 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 ____ | | |
| Hydric Soil Present? | Yes _✓_ No ____ | **Is the Sampled Area within a Wetland?** | **Yes _✓_ No ____** |
| Wetland Hydrology Present? | Yes _✓_ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-16 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PSS. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- _✓_ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- _✓_ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No _✓_ | Depth (inches): | |
| Water Table Present? | Yes ____ No _✓_ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes _✓_ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes _✓_ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-16; PSS-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Cornus racemosa* | 45 | Yes | FAC |
| 2. *Cornus amomum* | 20 | Yes | FACW |
| 3. *Rhamnus cathartica* | 10 | No | FAC |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 75 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Solidago gigantea* | 30 | Yes | FACW |
| 2. *Vitis riparia* | 8 | No | FAC |
| 3. *Parthenocissus quinquefolia* | 8 | No | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 46 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 3 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 50 | x 2 = | 100 |
| FAC species | 63 | x 3 = | 189 |
| FACU species | 8 | x 4 = | 32 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 121 | (A) | 321 (B) |

Prevalence Index = B/A = 2.7

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-16; PSS-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 18 | 2.5Y 4/2 | 95 | 7.5YR 5/6 | 5 | C | M/PL | Silty Clay Loam | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

**Hydric Soil Present?** Yes ✓ No ____

**Remarks:**

Soil Photos

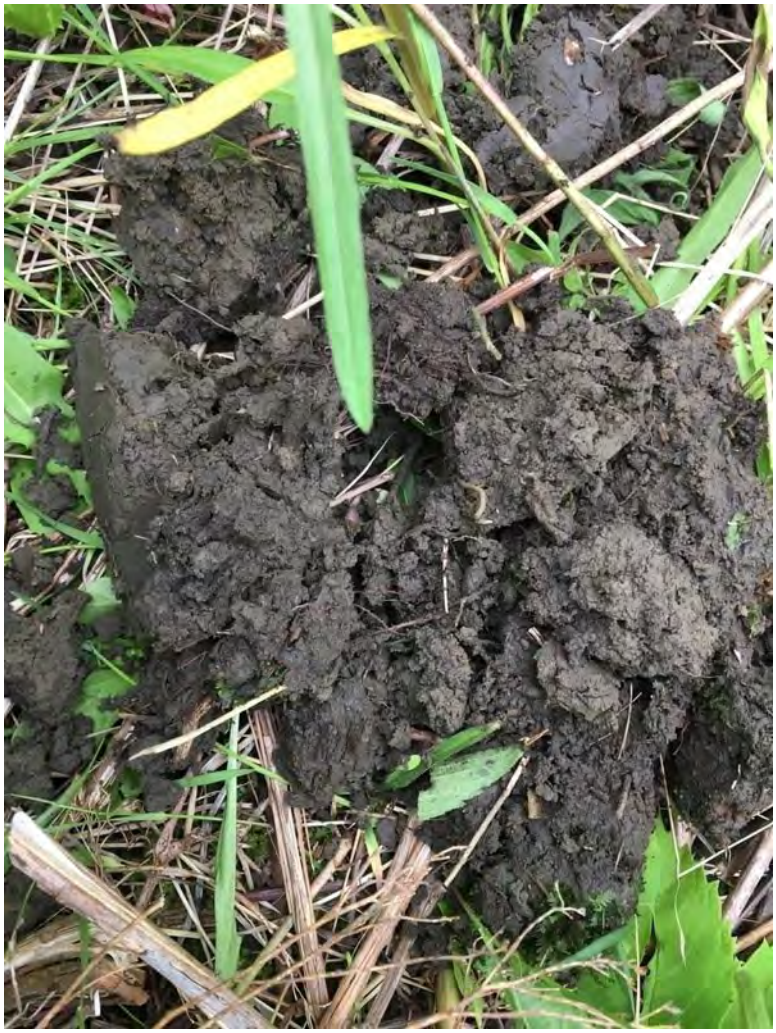
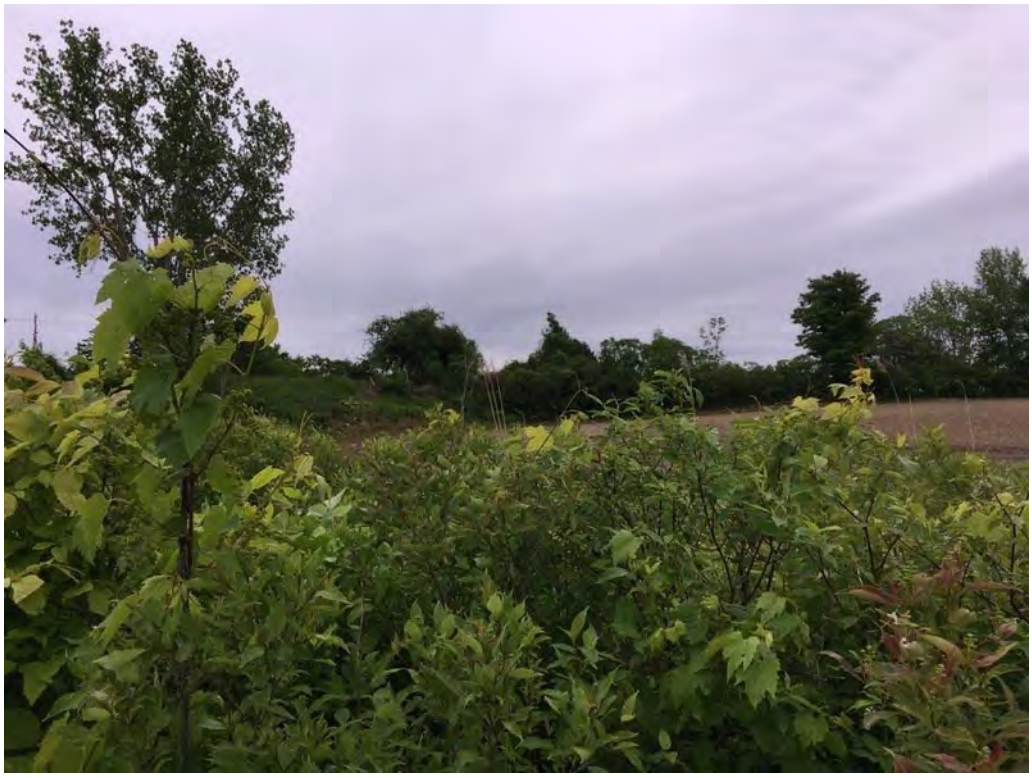
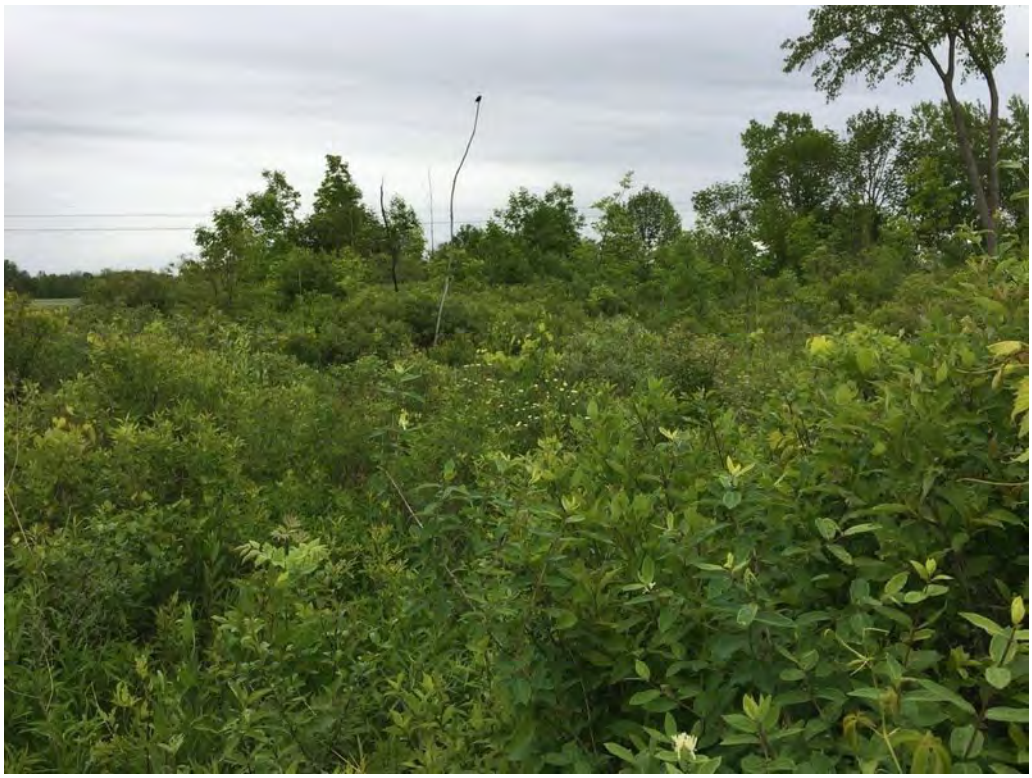


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-30
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-09; UPL-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 2-5
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0674127248 **Long:** -78.0631291875 **Datum:** WGS84
**Soil Map Unit Name:** Collamer silt loam, 2 to 6 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wet year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-09; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Taraxacum officinale* | 25 | Yes | FACU |
| 2. *Ambrosia artemisiifolia* | 10 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 35 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 35 | x 4 = | 140 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 35 | (A) | 140 (B) |

Prevalence Index = B/A = 4

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-09; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 12 | 10YR 4/4 | 100 | | | | | Loam | |
| | | | | | | | | |
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| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

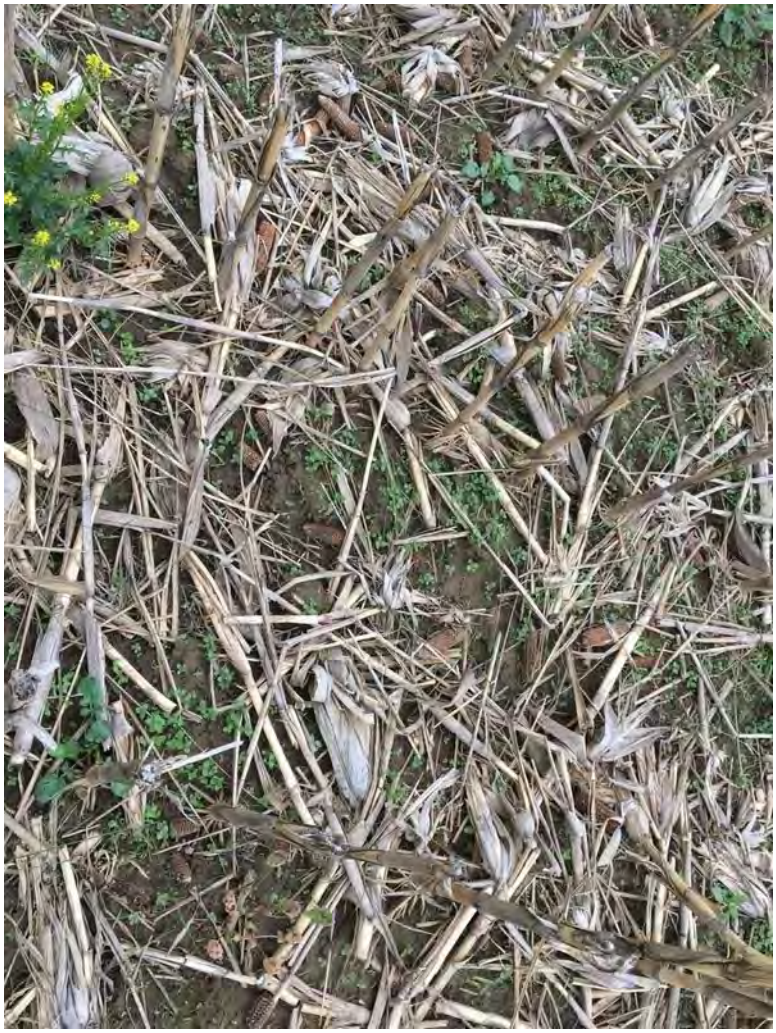
Type: None

Depth (inches):

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos



Soil Photos

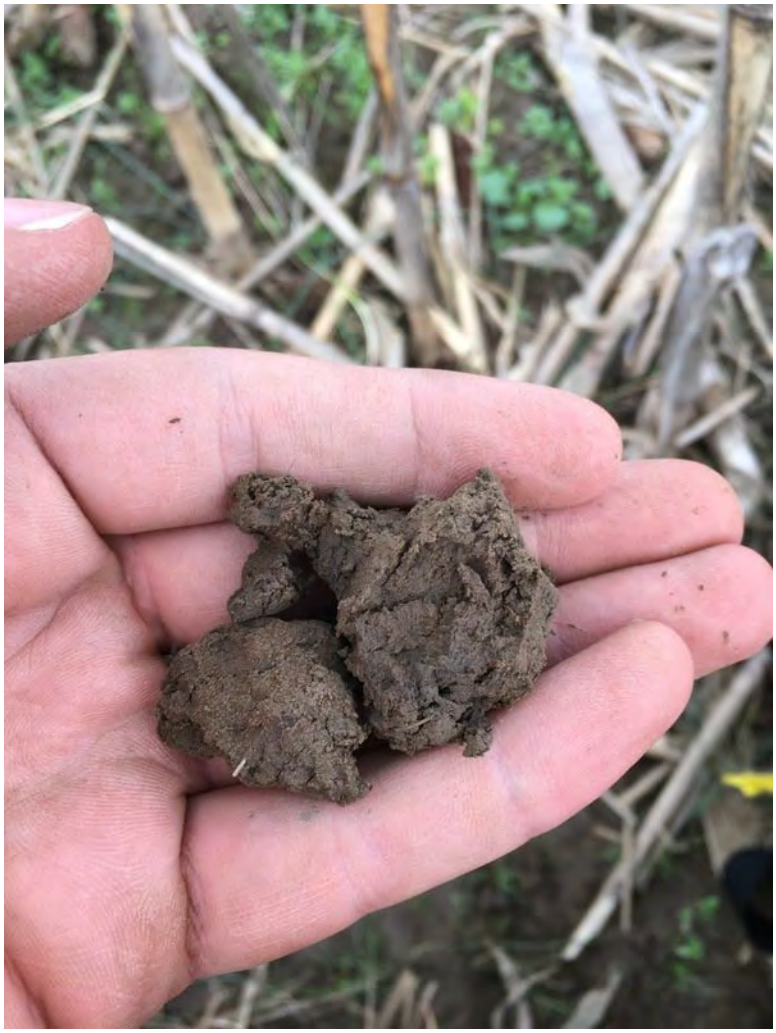
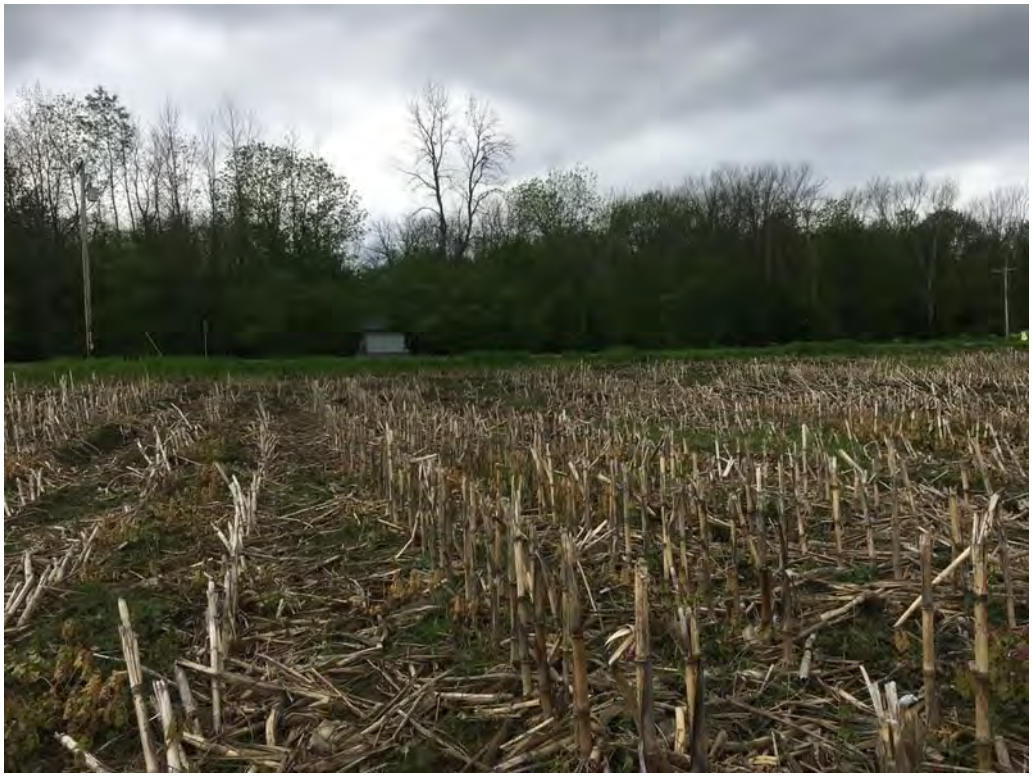


Photo of Sample Plot



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-11
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-28; PUB-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0603859481 **Long:** -78.086426938 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-28 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PUB. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ✓ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ✓ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 36 |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 0 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-28; PUB-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Salix nigra* | 5 | Yes | OBL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 5 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Typha angustifolia* | 15 | Yes | OBL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 15 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 2 | (A) |
| Total Number of Dominant Species Across All Strata: | 2 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 20 | x 1 = | 20 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 20 | (A) | 20 (B) |
| Prevalence Index = B/A = | 1 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-28; PUB-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
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[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
_✓_ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

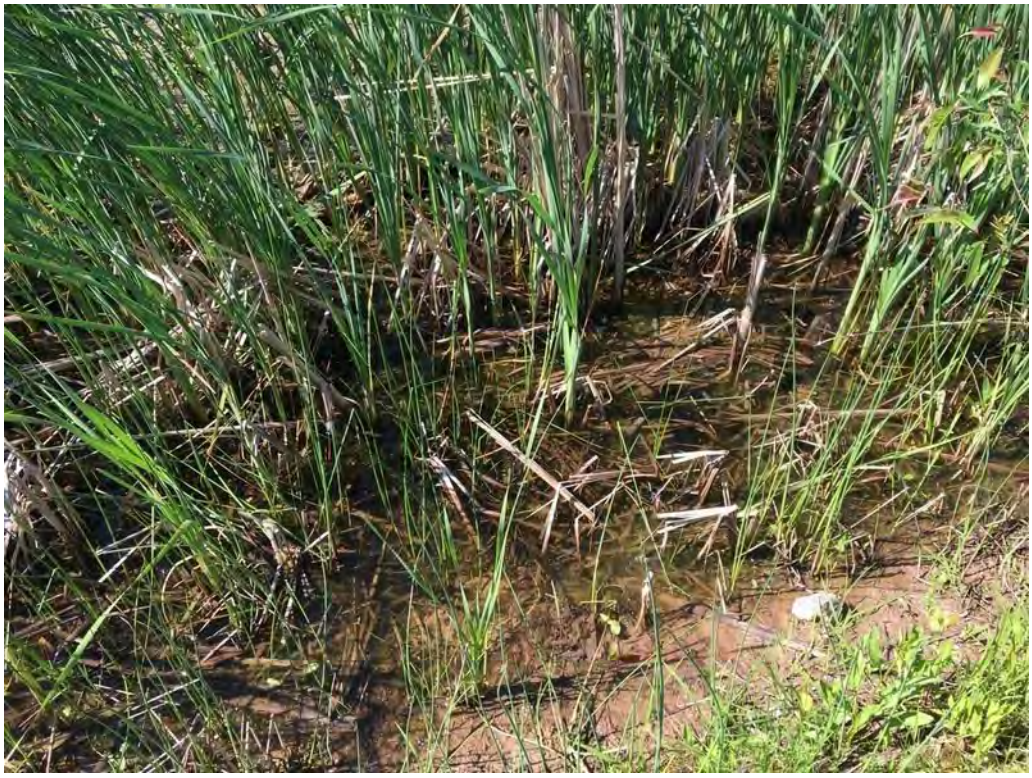
Depth (inches):

**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Soils were assumed to be hydric due to the presence of inundation, FACW and OBL vegetation species, and a definitive wetland boundary.

Hydrology Photos



Vegetation Photos

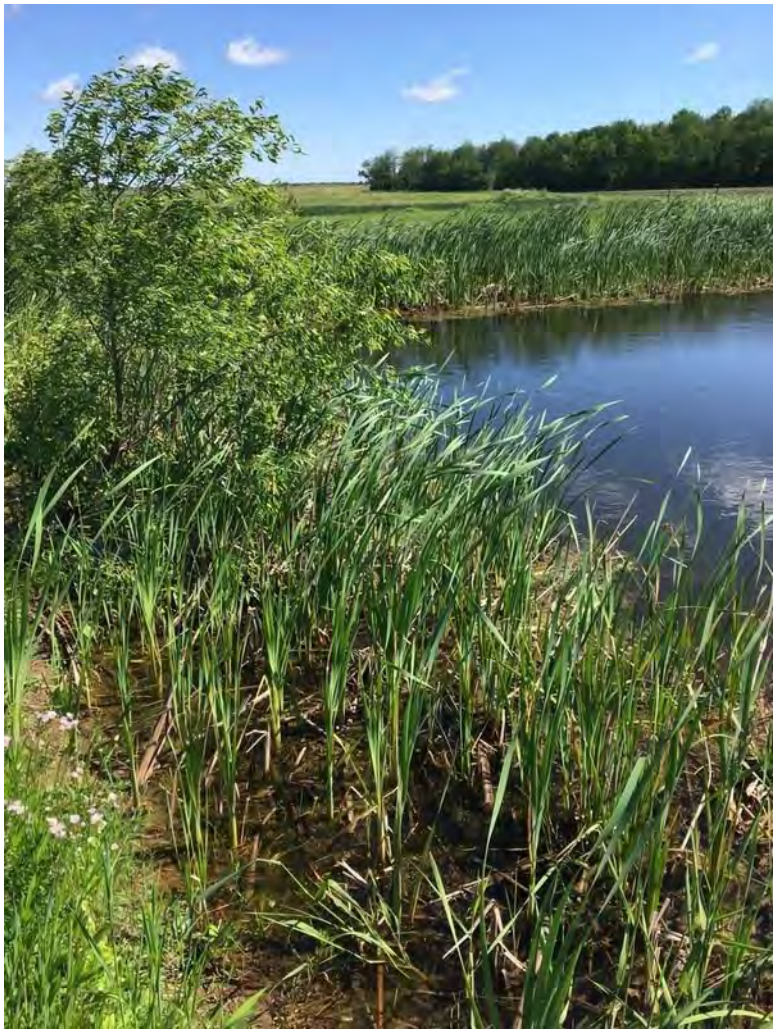
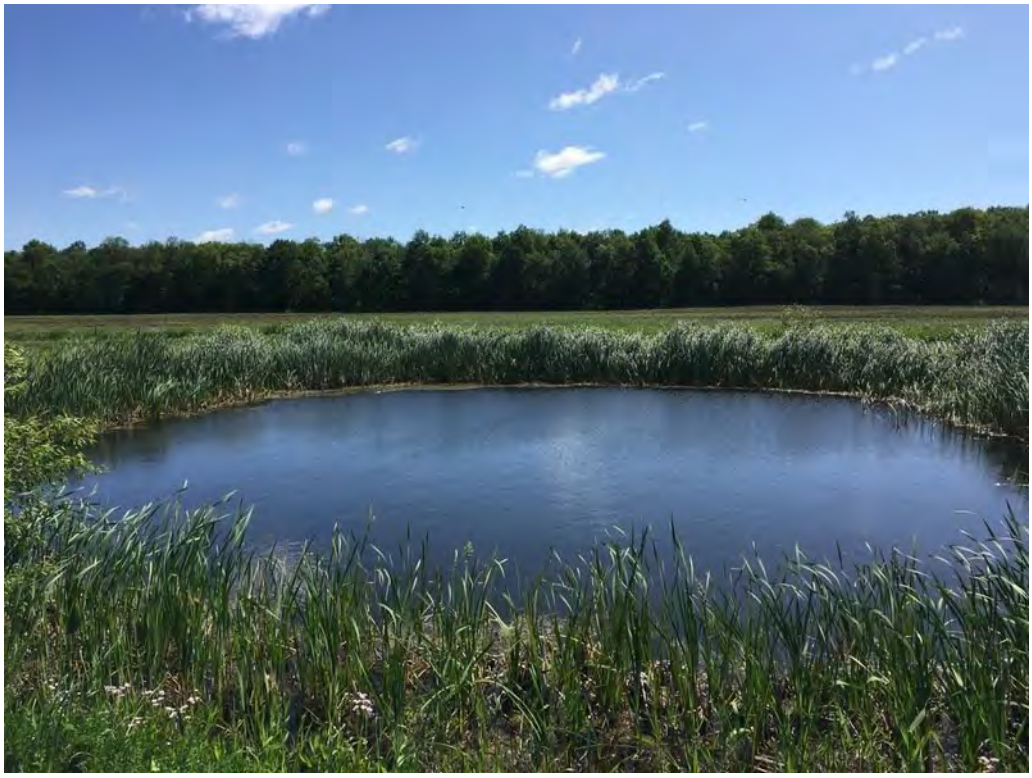
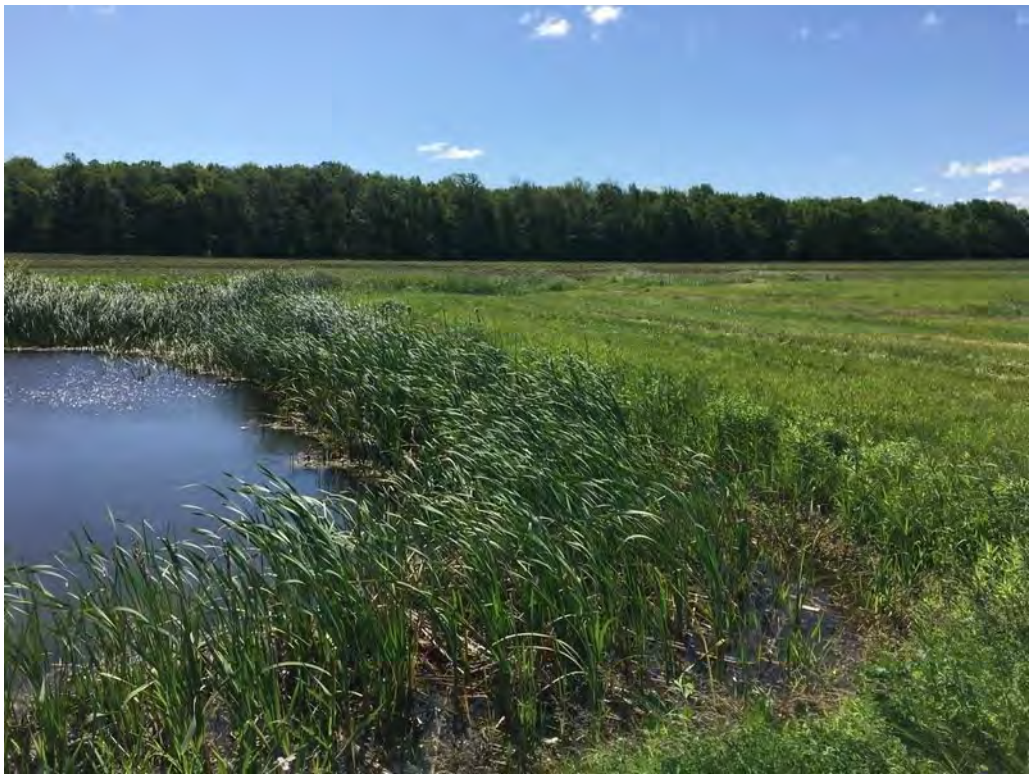


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-07
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-23; UPL-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0734770978 **Long:** -78.0767776073 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-23; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 0 (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-23; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 6 | 7.5YR 3/2 | 100 | | | | | Loam | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Gravel/rocks
Depth (inches): 6

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos

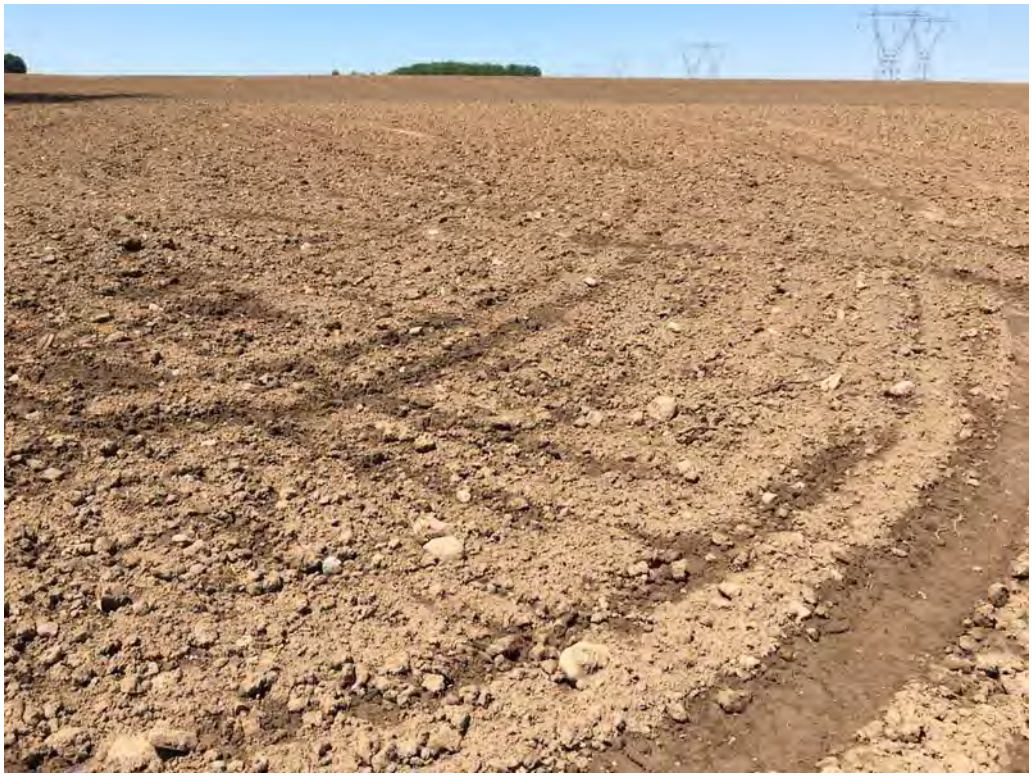
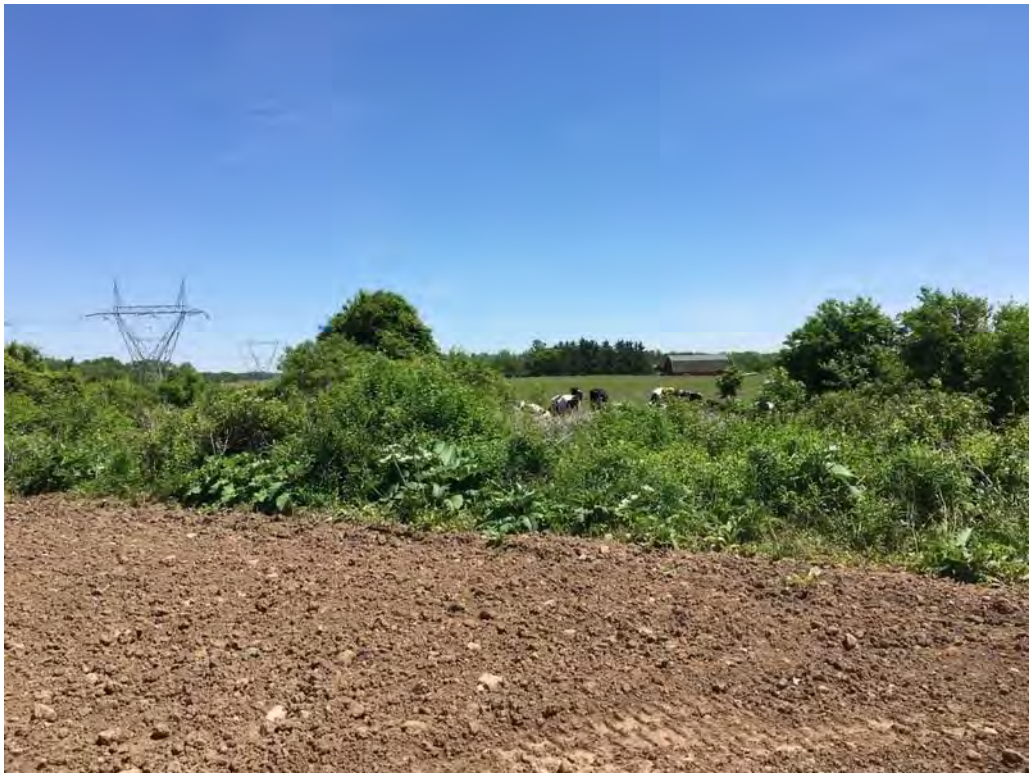
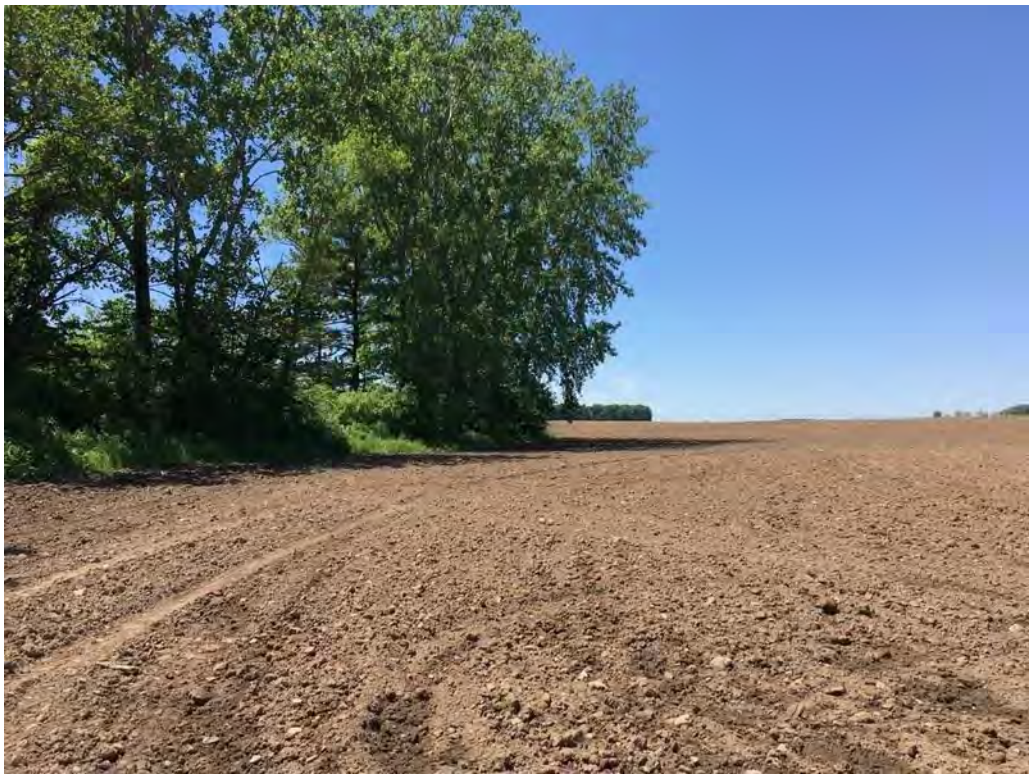


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-12
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-35; PEM-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Concave **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0545783788 **Long:** -78.0925768242 **Datum:** WGS84
**Soil Map Unit Name:** Lamson very fine sandy loam **NWI classification:** PUBHx
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-35 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ✓ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ✓ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ✓ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ✓ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 6 |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 4 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-35; PEM-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Eleocharis obtusa* | 10 | Yes | OBL |
| 2. *Alisma triviale* | 8 | Yes | OBL |
| 3. *Ranunculus sceleratus* | 5 | Yes | OBL |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 23 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 3 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 23 | x 1 = | 23 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 23 | (A) | 23 (B) |
| Prevalence Index = B/A = | 1 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

Active agricultural field

SOIL

Sampling Point: W-JJB-35; PEM-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 17 | 10YR 2/1 | 98 | 7.5YR 4/4 | 2 | C | M | Silty Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

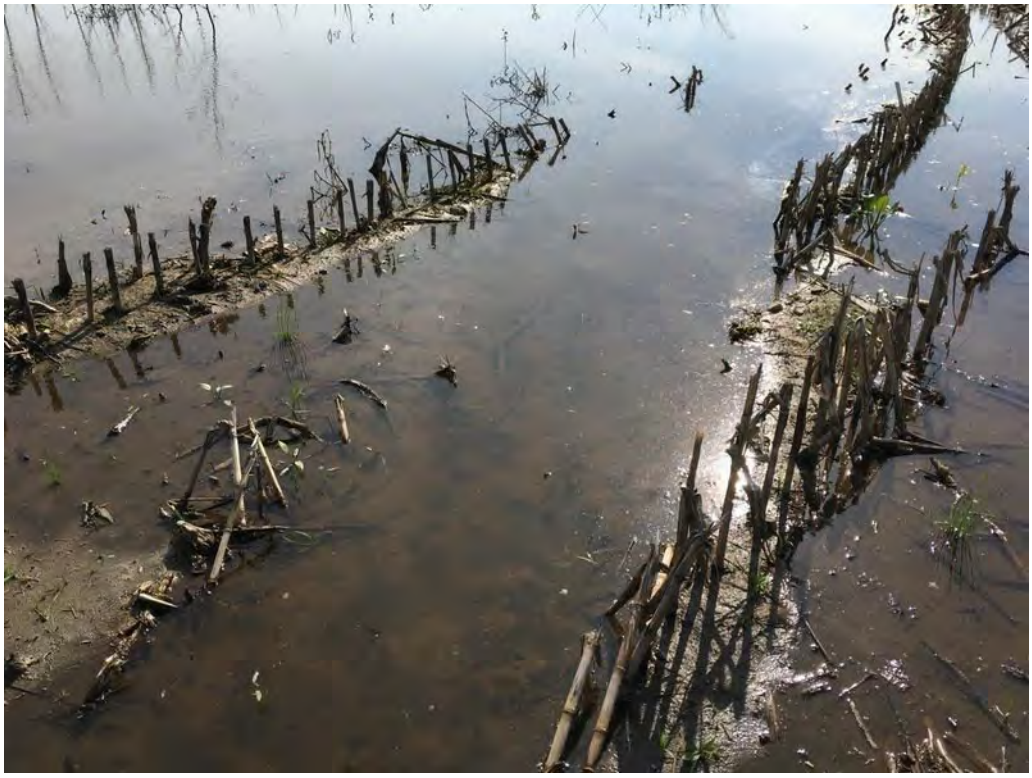
Type: None

Depth (inches):

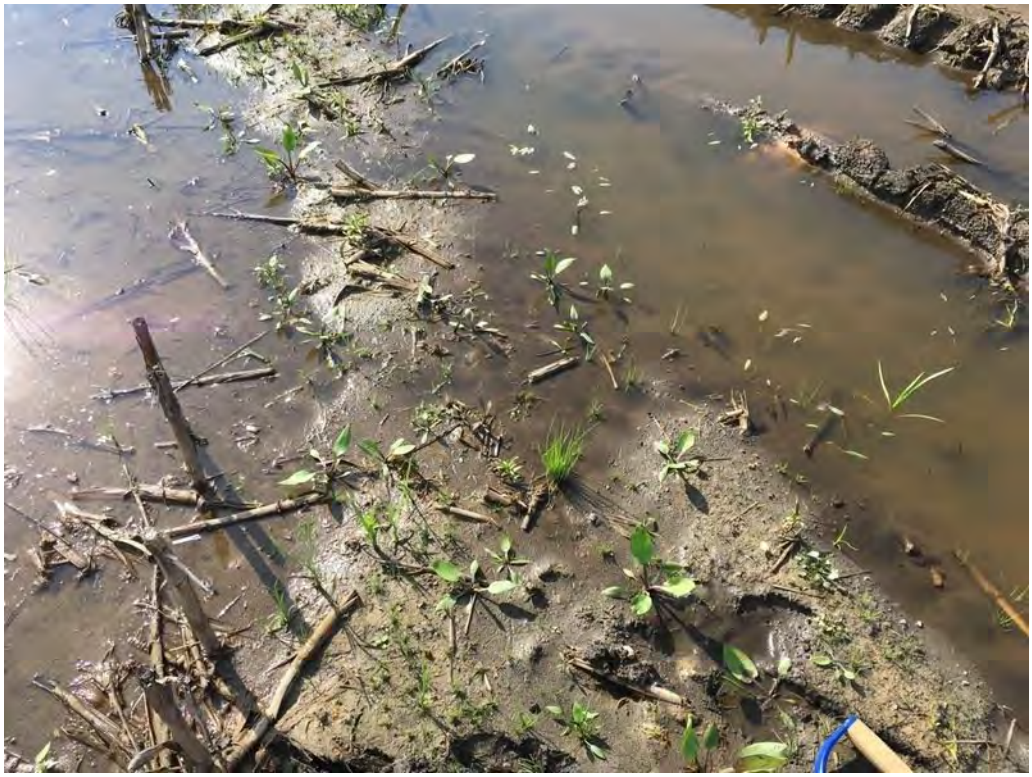
**Hydric Soil Present?** Yes ✓ No ____

**Remarks:**

Hydrology Photos



Vegetation Photos



Soil Photos

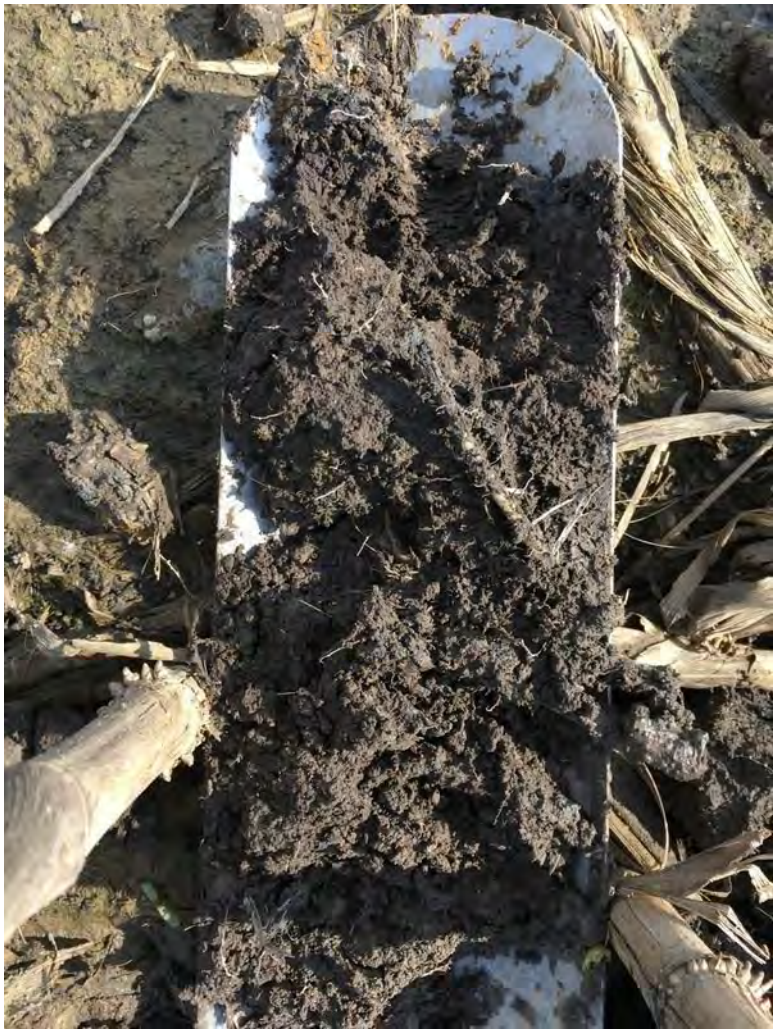
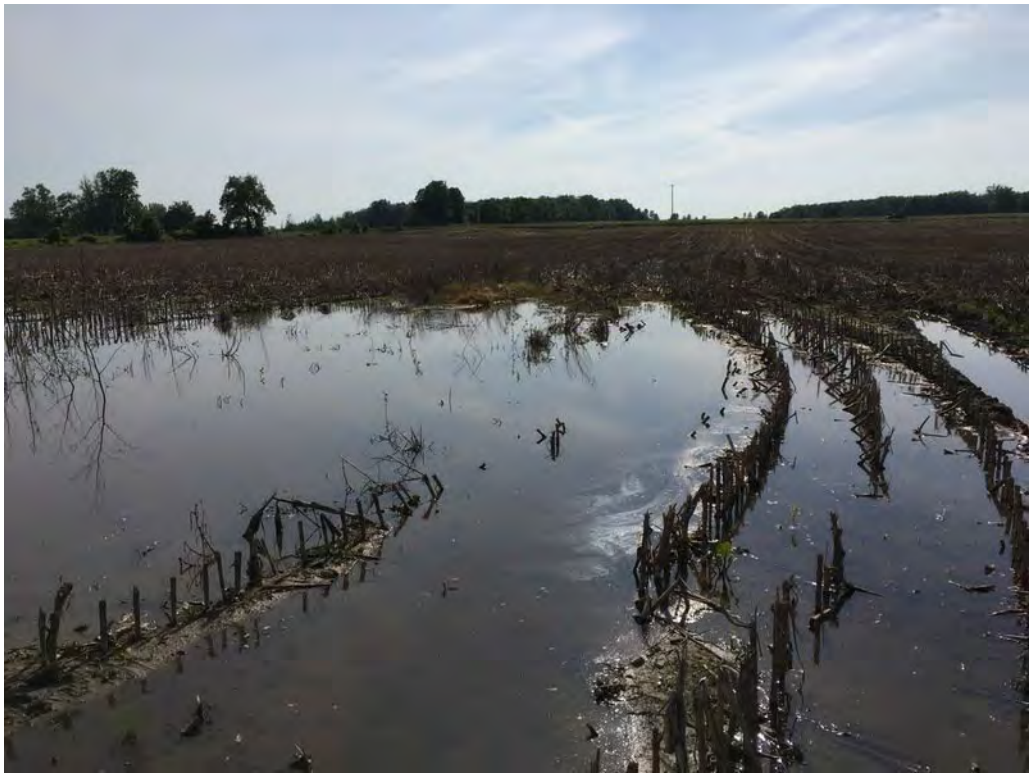
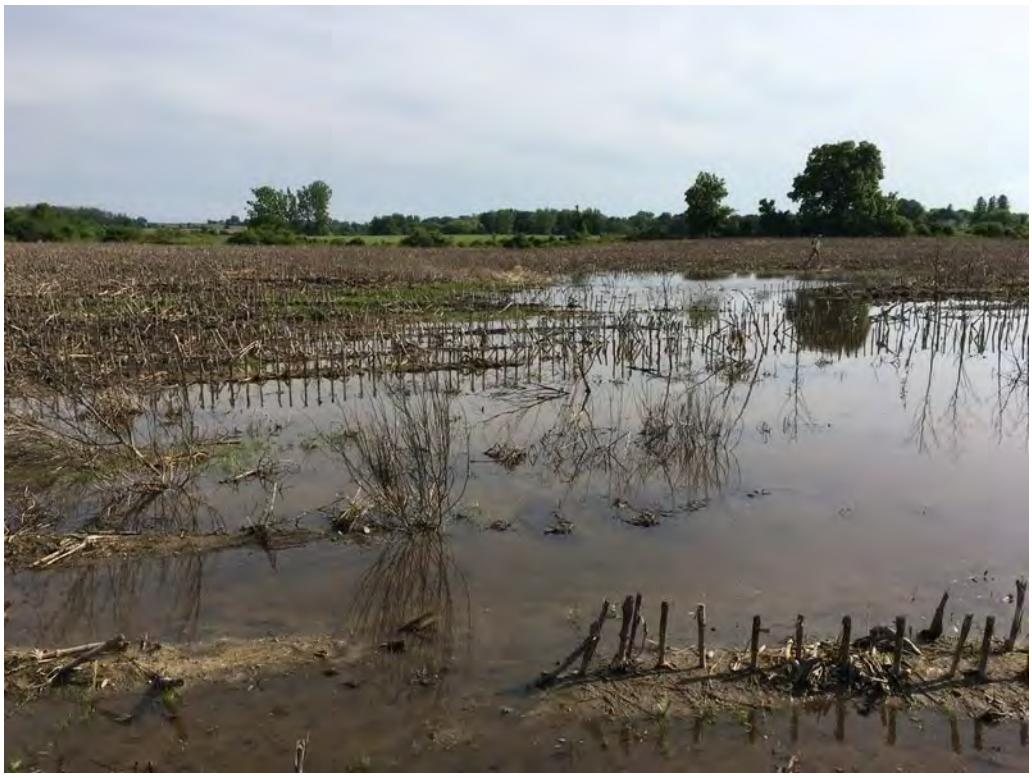
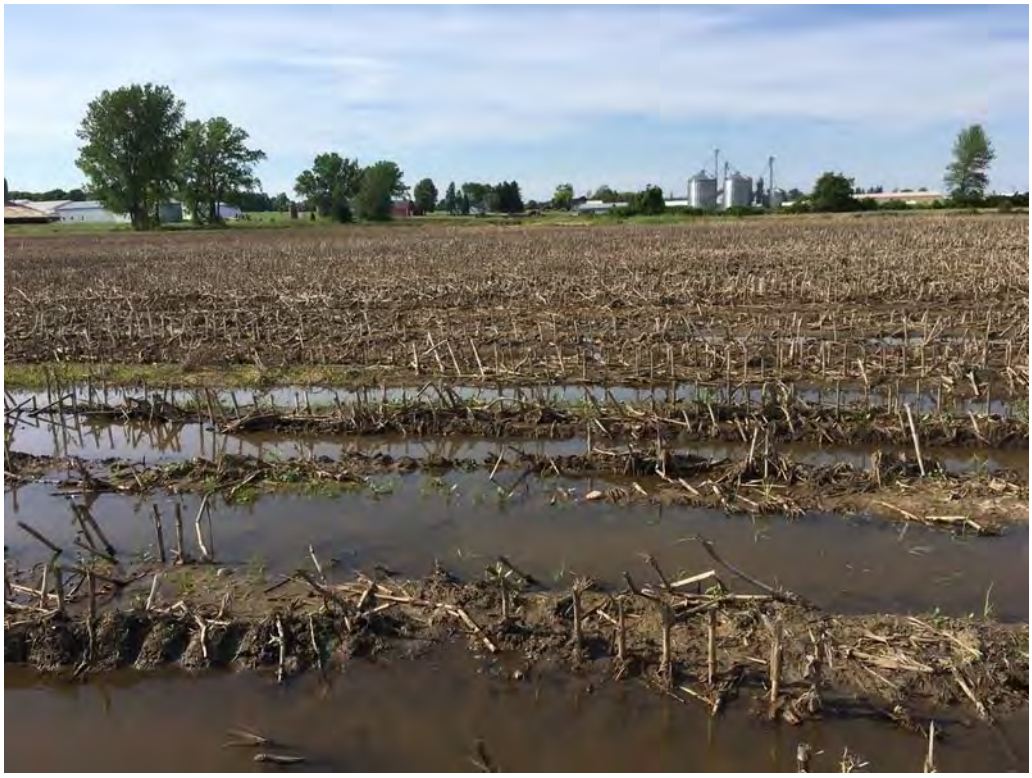
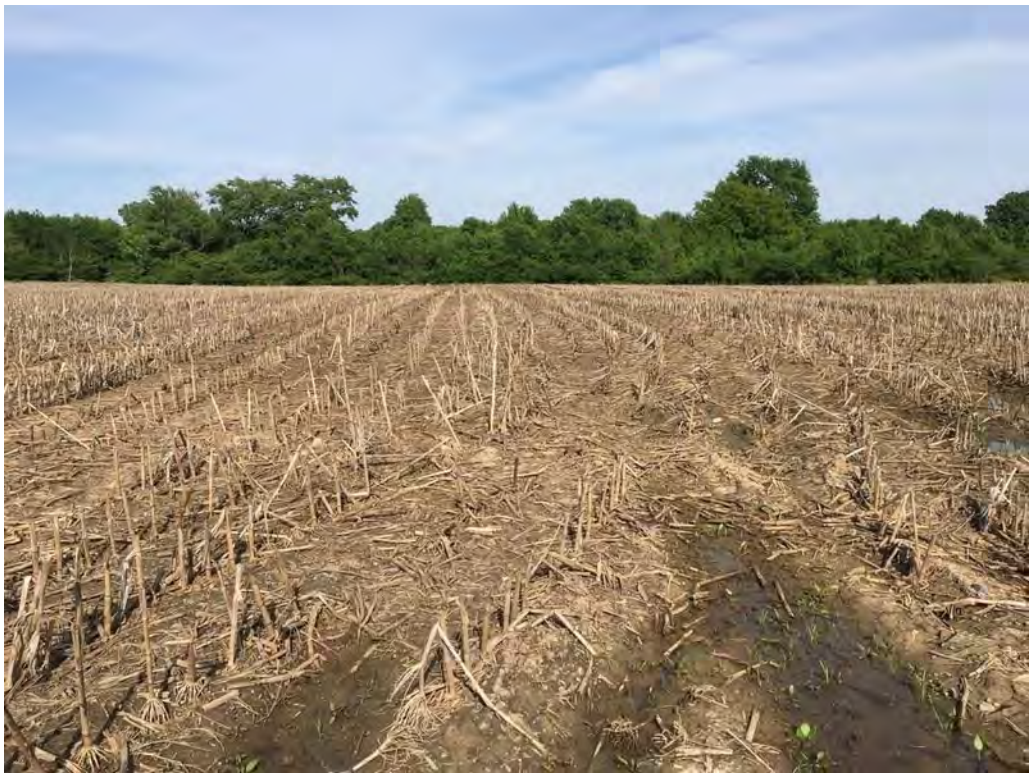


Photo of Sample Plot









## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-11
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-28; UPL-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Hilltop **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0605265964 **Long:** -78.0863939133 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-28; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Poa pratensis* | 75 | Yes | FACU |
| 2. *Taraxacum officinale* | 25 | Yes | FACU |
| 3. *Galium mollugo* | 15 | No | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 115 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 115 | x 4 = | 460 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 115 | (A) | 460 (B) |

Prevalence Index = B/A = 4

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

SOIL

Sampling Point: W-JJB-28; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 16 | 10YR 3/2 | 100 | | | | | Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

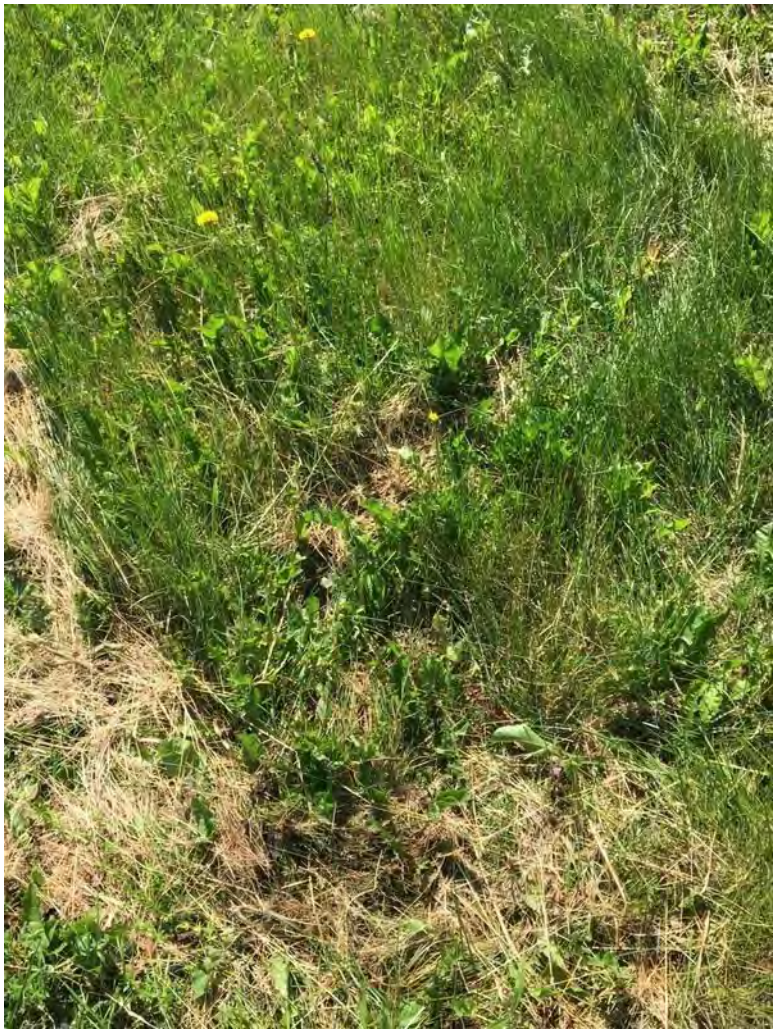
**Restrictive Layer (if observed):**

Type: Gravel/rocks
Depth (inches): 16

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos



Soil Photos

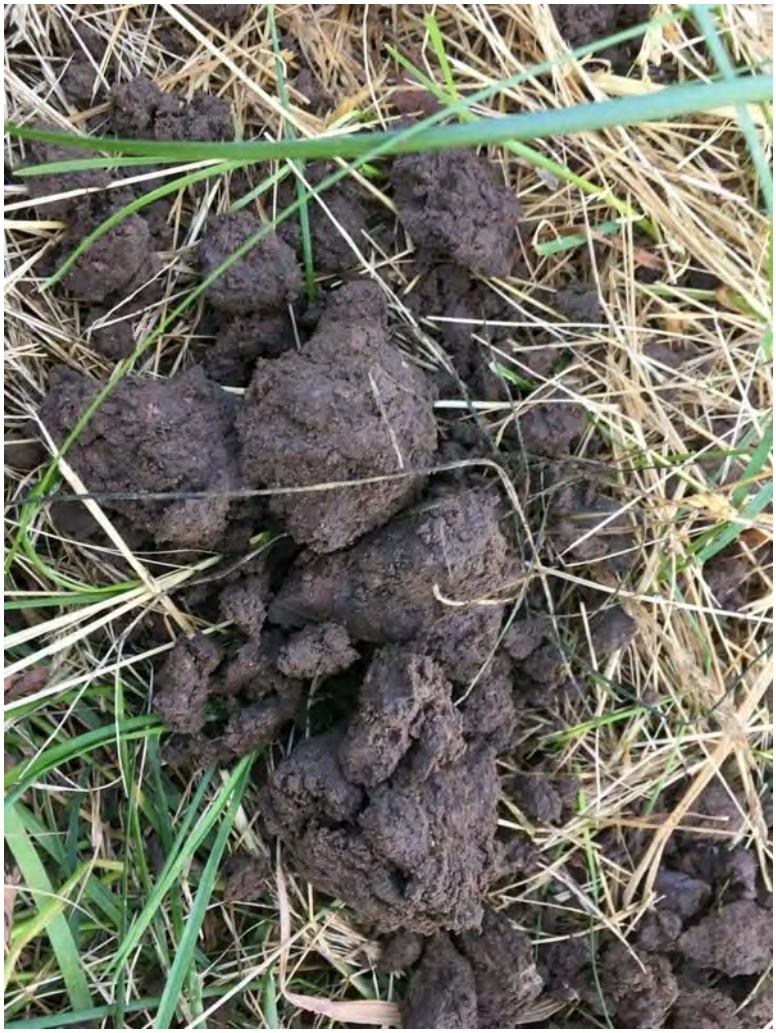
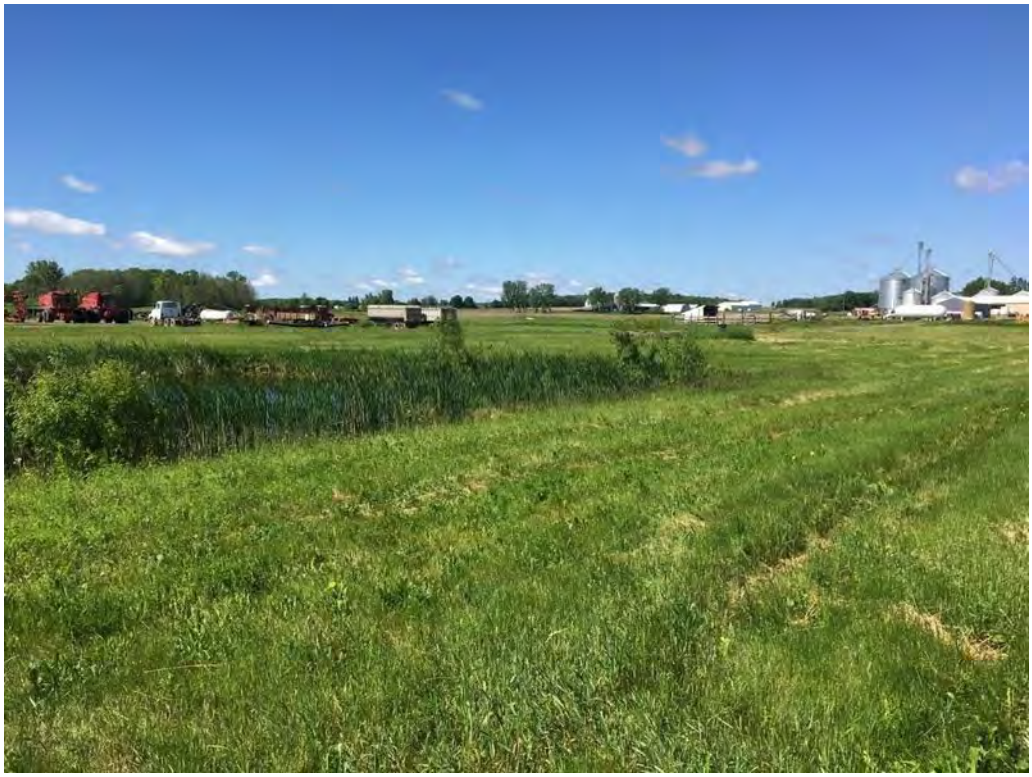


Photo of Sample Plot



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-30
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-11; UPL-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Plain **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0773967 **Long:** -78.1027686 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 3 to 8 percent slopes **NWI classification:** None
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Area is upland, not all three wetland parameters are present.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

No positive indication of wetland hydrology was observed.

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-11; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Fraxinus pennsylvanica* | 35 | Yes | FACW |
| 2. *Betula papyrifera* | 15 | Yes | FACU |
| 3. *Robinia pseudoacacia* | 10 | No | FACU |
| 4. *Acer negundo* | 8 | No | FAC |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 68 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Fraxinus pennsylvanica* | 10 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 10 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Toxicodendron radicans* | 35 | Yes | FAC |
| 2. *Parthenocissus quinquefolia* | 20 | Yes | FACU |
| 3. *Fraxinus pennsylvanica* | 15 | Yes | FACW |
| 4. *Solidago canadensis* | 5 | No | FACU |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 75 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. *Toxicodendron radicans* | 10 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 10 | = Total Cover | |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 60 | x 2 = | 120 |
| FAC species | 53 | x 3 = | 159 |
| FACU species | 50 | x 4 = | 200 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 163 | (A) | 479 (B) |

Prevalence Index = B/A = 2.9

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is ≤ 3.00).

SOIL

Sampling Point: W-JDV-11; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 12 | 10YR 5/4 | 100 | | | | | Silt Loam | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

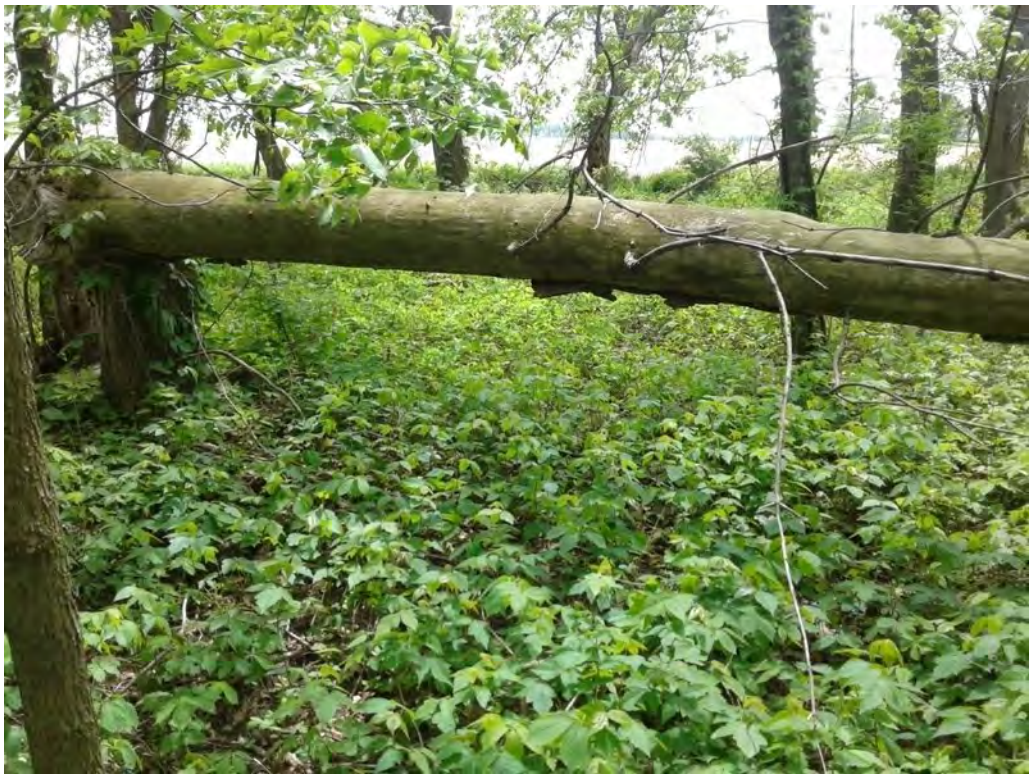
Depth (inches):

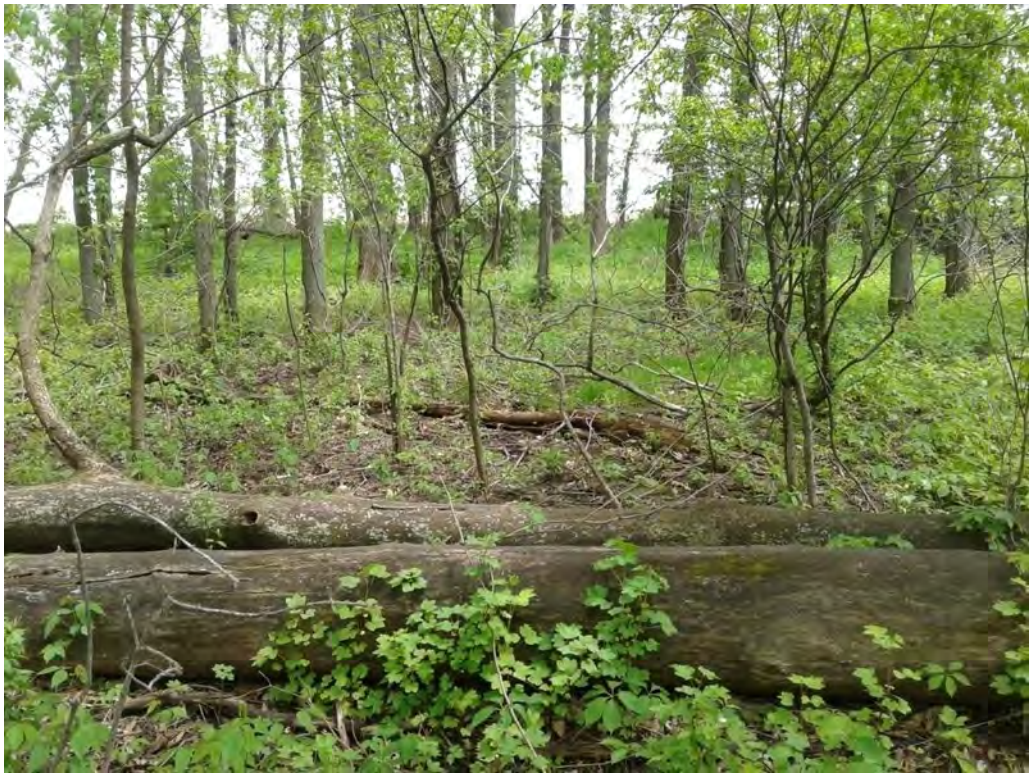
**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

No positive indication of hydric soils was observed.

Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-31
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-15; PUB-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0703841 **Long:** -78.1135657 **Datum:** WGS84
**Soil Map Unit Name:** Wakeville silt loam **NWI classification:** PUBF
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes _✓_ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes _✓_ 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 ____ | | |
| Hydric Soil Present? | Yes _✓_ No ____ | **Is the Sampled Area within a Wetland?** | **Yes _✓_ No ____** |
| Wetland Hydrology Present? | Yes _✓_ No ____ | **If yes, optional Wetland Site ID:** | W-JDV-15 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PUB. Ponded PUB

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- _✓ Surface Water (A1)
- _✓ High Water Table (A2)
- _✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- _✓ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes _✓_ No ____ | Depth (inches): | 20 |
| Water Table Present? | Yes _✓_ No ____ | Depth (inches): | 0 |
| Saturation Present? (includes capillary fringe) | Yes _✓_ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes _✓_ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-15; PUB-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: **0** (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_✓_ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

ponded

SOIL

Sampling Point: W-JDV-15; PUB-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

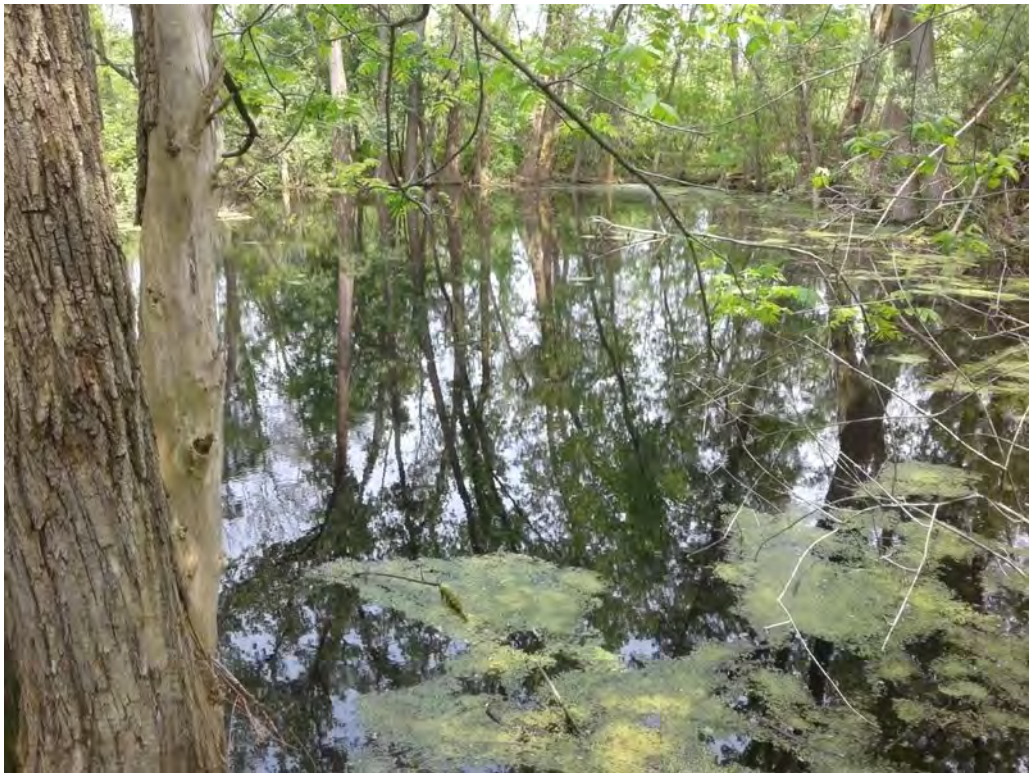
Type: Ponded
Depth (inches): 0

**Hydric Soil Present?** Yes ✓ No ____

**Remarks:**

Ponded

Photo of Sample Plot



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-29
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-01; PFO-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 2-5
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0835438474 **Long:** -78.0504332856 **Datum:** WGS84
**Soil Map Unit Name:** Canandaigua silt loam, 0 to 2 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-01 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 1 |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-01; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Fraxinus pennsylvanica* | 25 | Yes | FACW |
| 2. *Juglans nigra* | 10 | Yes | FACU |
| 3. *Acer saccharinum* | 8 | No | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 43 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Lonicera japonica* | 15 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 15 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Impatiens capensis* | 75 | Yes | FACW |
| 2. *Persicaria lapathifolia* | 25 | Yes | FACW |
| 3. *Urtica dioica* | 10 | No | FAC |
| 4. *Symplocarpus foetidus* | 8 | No | OBL |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 118 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. *Vitis riparia* | 15 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 15 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 4 | (A) |
| Total Number of Dominant Species Across All Strata: | 6 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 66.7 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 8 | x 1 = | 8 |
| FACW species | 133 | x 2 = | 266 |
| FAC species | 25 | x 3 = | 75 |
| FACU species | 25 | x 4 = | 100 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 191 | (A) | 449 (B) |

Prevalence Index = B/A = 2.4

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-01; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 4 | 10YR 3/2 | 100 | | | | | Clay Loam | |
| 4 - 14 | 10YR 3/2 | 80 | 7.5YR 4/4 | 20 | C | M | Clay Loam | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

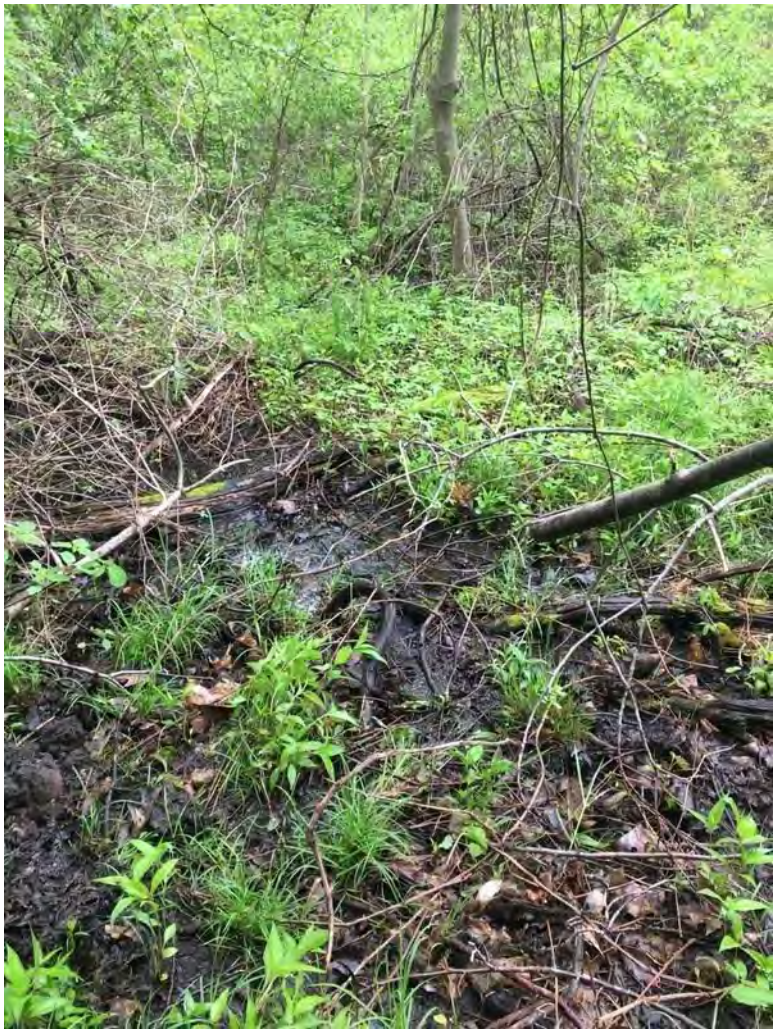
Type: None

Depth (inches):

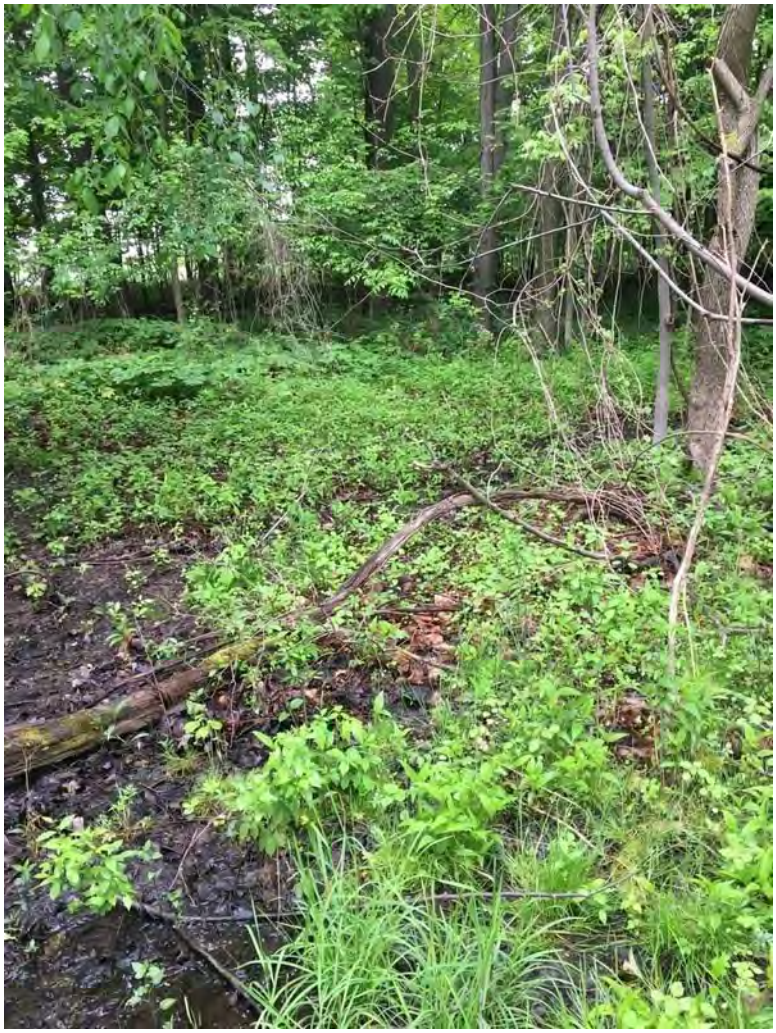
**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Hydrology Photos



Vegetation Photos



Soil Photos

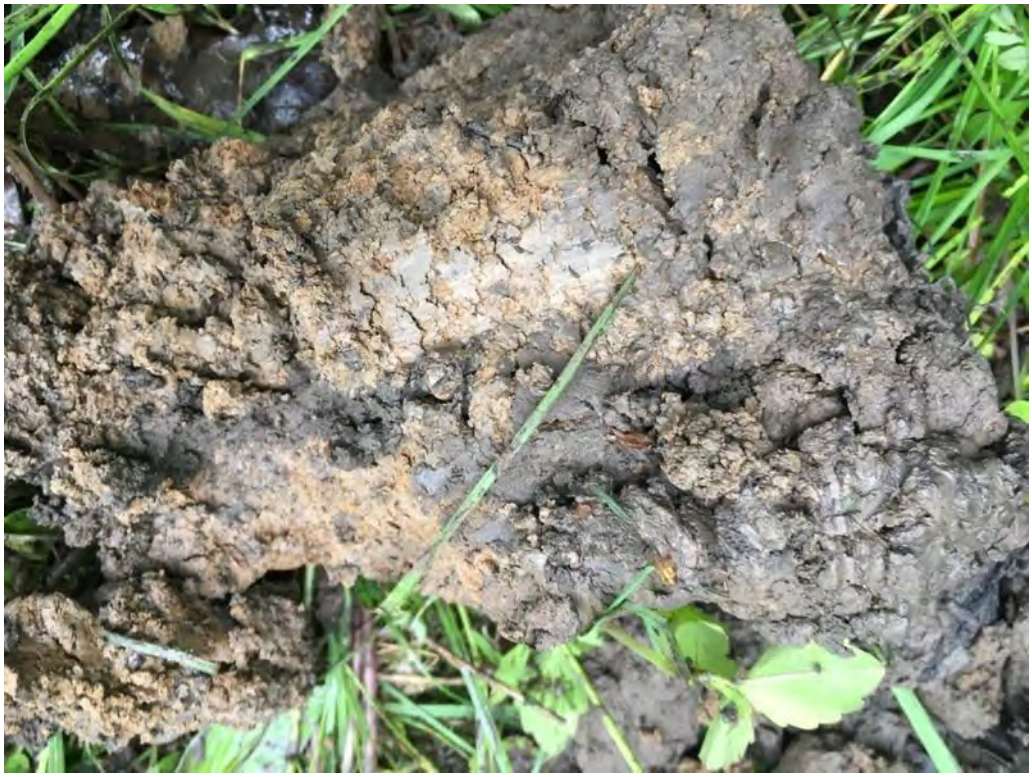


Photo of Sample Plot

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Elba, Genesee **Sampling Date:** 2019-June-06
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-20; PEM-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Concave **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.046577978 **Long:** -78.1093205978 **Datum:** WGS84
**Soil Map Unit Name:** Ovid silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-20 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ✓ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ✓ Inundation Visible on Aerial Imagery (B7)
- ✓ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ✓ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ✓ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 7 |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 0 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-20; PEM-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Alisma triviale* | 45 | Yes | OBL |
| 2. *Eleocharis obtusa* | 10 | No | OBL |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 55 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 1 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 55 | x 1 = | 55 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 55 | (A) | 55 (B) |
| Prevalence Index = B/A = | 1 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-20; PEM-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
_✓_ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

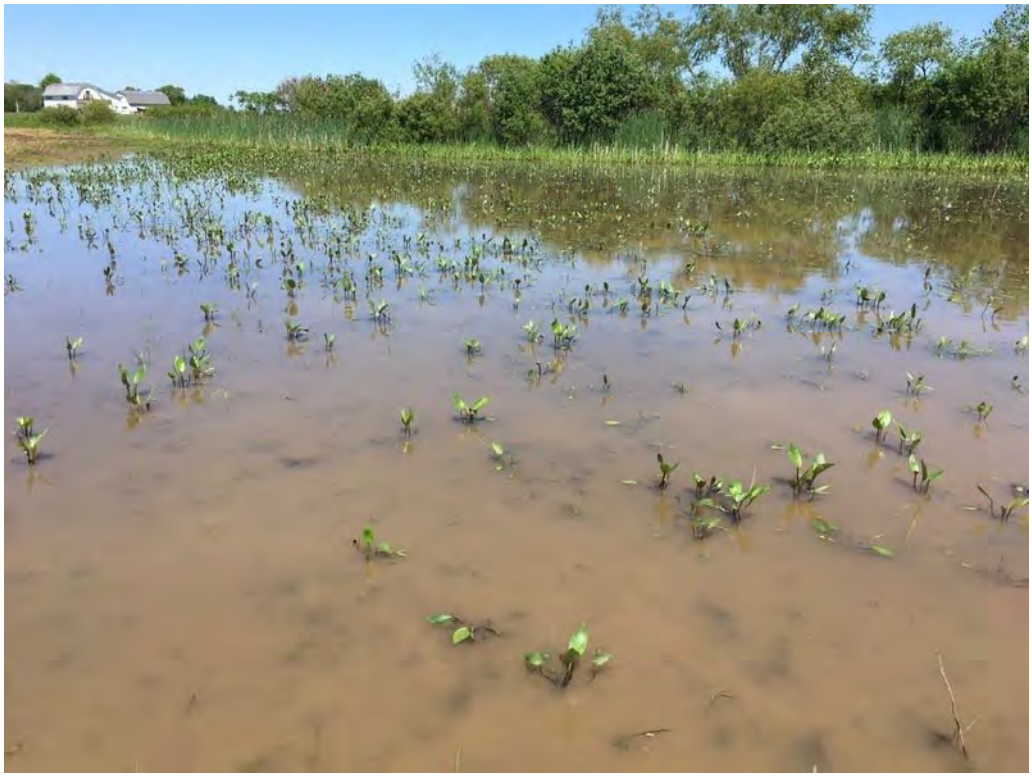
Depth (inches):

**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Due to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric., Soils were assumed to be hydric due to the presence of inundation, FACW and OBL vegetation species, and a definitive wetland boundary.

Hydrology Photos



Vegetation Photos

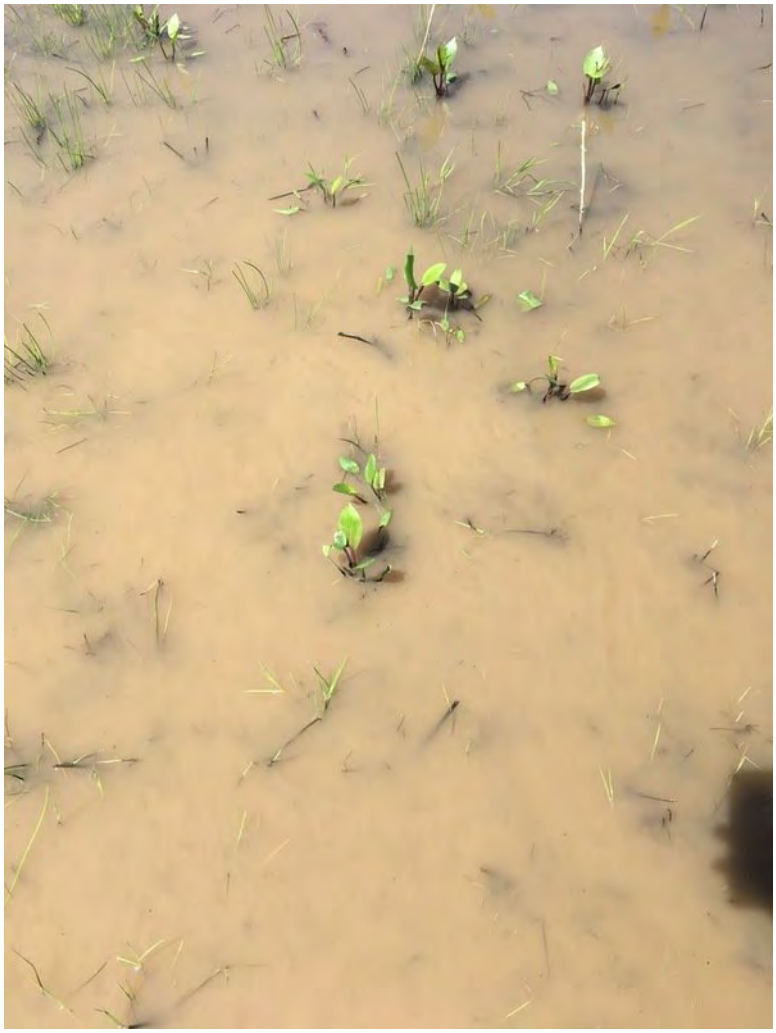
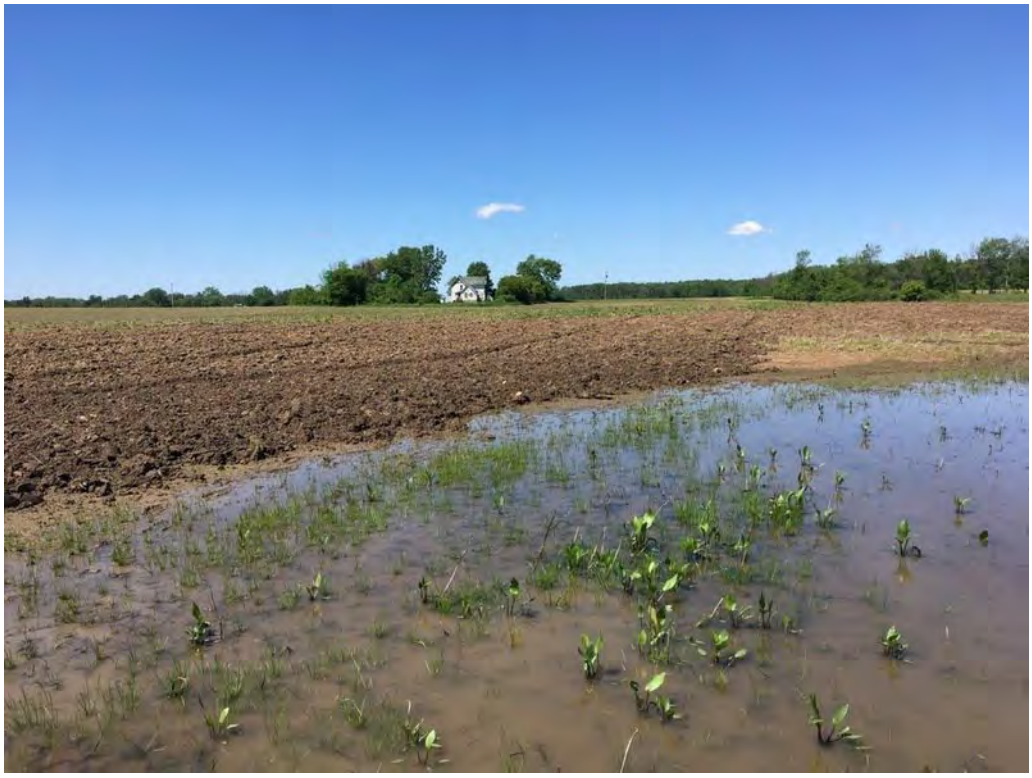
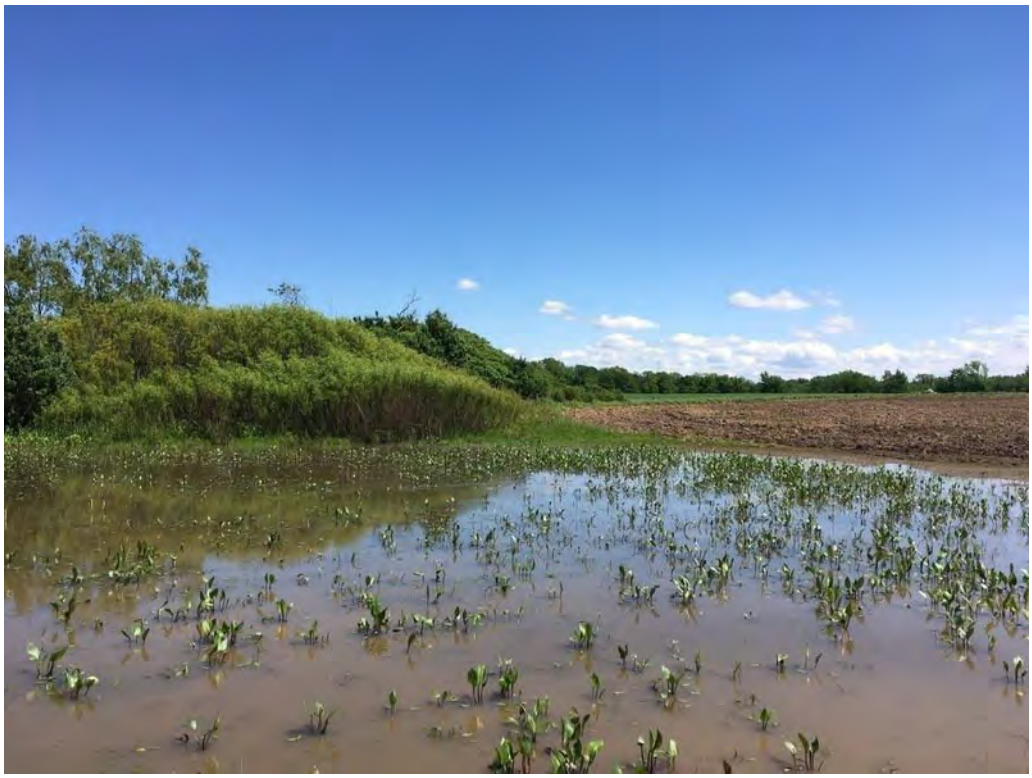


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-10
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-25; PFO-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Hillslope **Local relief (concave, convex, none):** Flat **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0624178471 **Long:** -78.0798329786 **Datum:** WGS84
**Soil Map Unit Name:** Ovid silt loam, 3 to 8 percent slopes **NWI classification:** PFO
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No _✓_ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes _✓_ 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 ____ | | |
| Hydric Soil Present? | Yes _✓_ No ____ | **Is the Sampled Area within a Wetland?** | **Yes _✓_ No ____** |
| Wetland Hydrology Present? | Yes _✓_ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-25 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO. Circumstances are not normal due to agricultural activities, Wet year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- _✓_ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- _✓_ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No _✓_ | Depth (inches): | |
| Water Table Present? | Yes ____ No _✓_ | Depth (inches): | **Wetland Hydrology Present?** Yes _✓_ No ____ |
| Saturation Present? (includes capillary fringe) | Yes ____ No _✓_ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-25; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 40 | Yes | FAC |
| 2. *Fraxinus americana* | 25 | Yes | FACU |
| 3. *Tilia americana* | 25 | Yes | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 90 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. *Toxicodendron radicans* | 55 | Yes | FAC |
| 2. *Parthenocissus quinquefolia* | 40 | Yes | FACU |
| 3. *Carex grayi* | 15 | No | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 110 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 2 | (A) |
| Total Number of Dominant Species Across All Strata: | 5 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 40 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 15 | x 2 = | 30 |
| FAC species | 95 | x 3 = | 285 |
| FACU species | 90 | x 4 = | 360 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 200 | (A) | 675 (B) |
| Prevalence Index = B/A = | 3.4 | | |

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0[1]

_✓_ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

A positive indication of hydrophytic vegetation was observed (Morphological Adaptations). Shallow rooting as morphological adaptation was observed.

SOIL

Sampling Point: W-JJB-25; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 6 | 10YR 2/2 | 100 | | | | | Fine Clay Loam | |
| 6 - 18 | 10YR 4/2 | 85 | 7.5YR 5/6 | 15 | C | M | Fine Clay | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

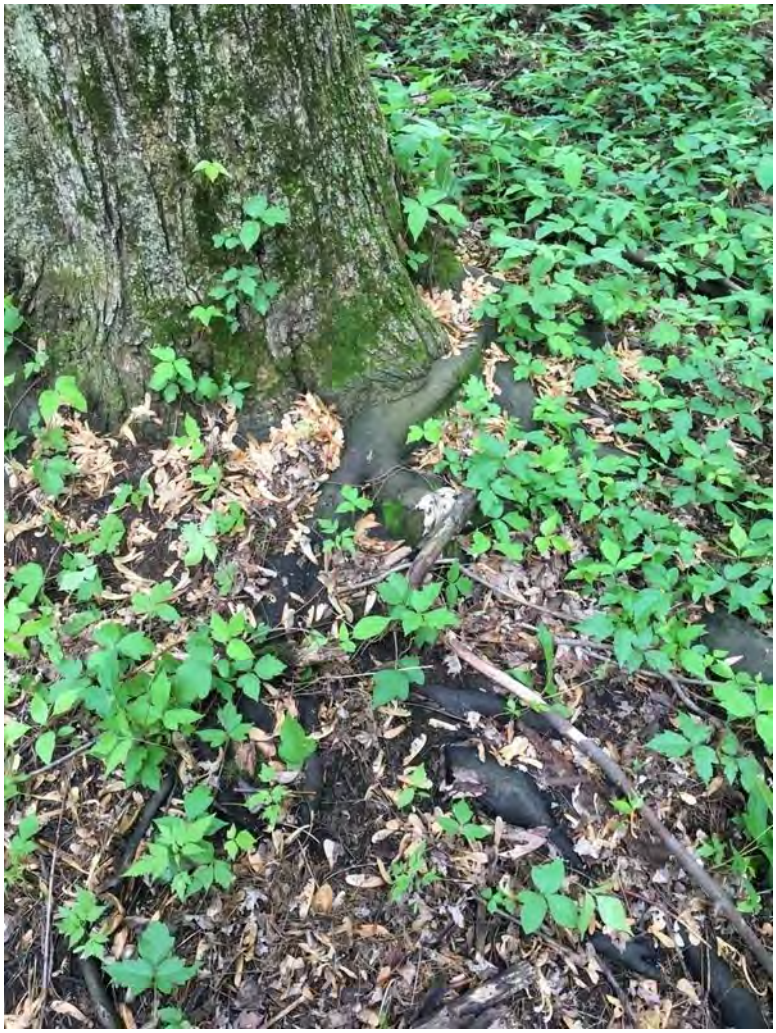
Type: None

Depth (inches):

**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Hydrology Photos



Vegetation Photos

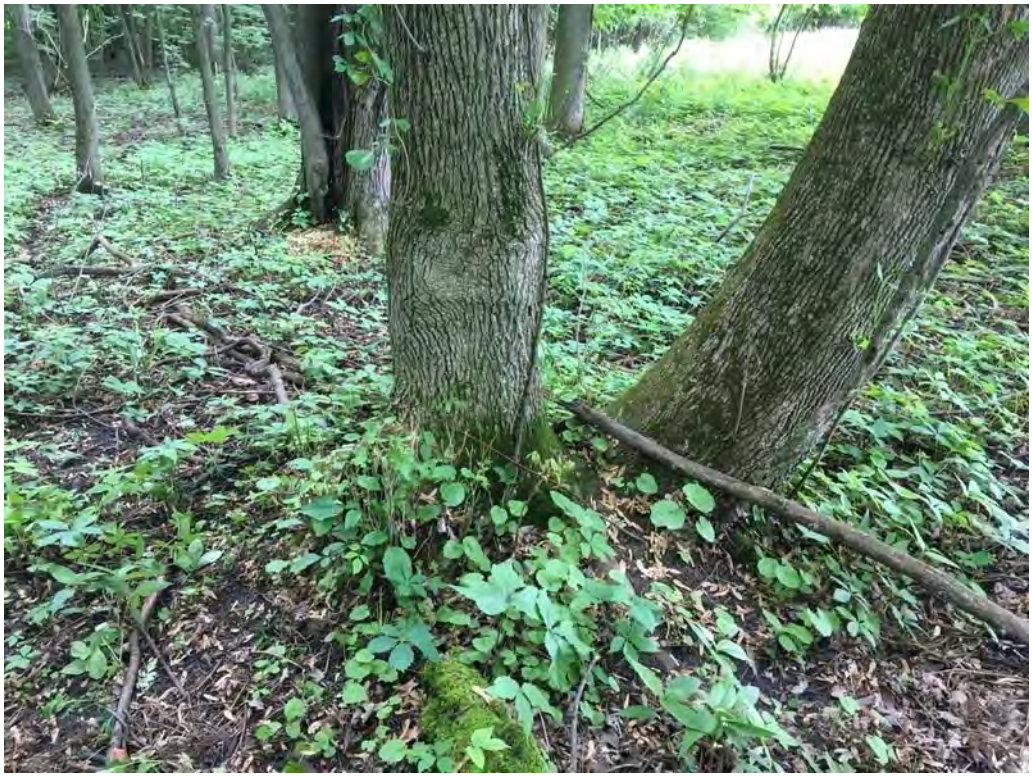
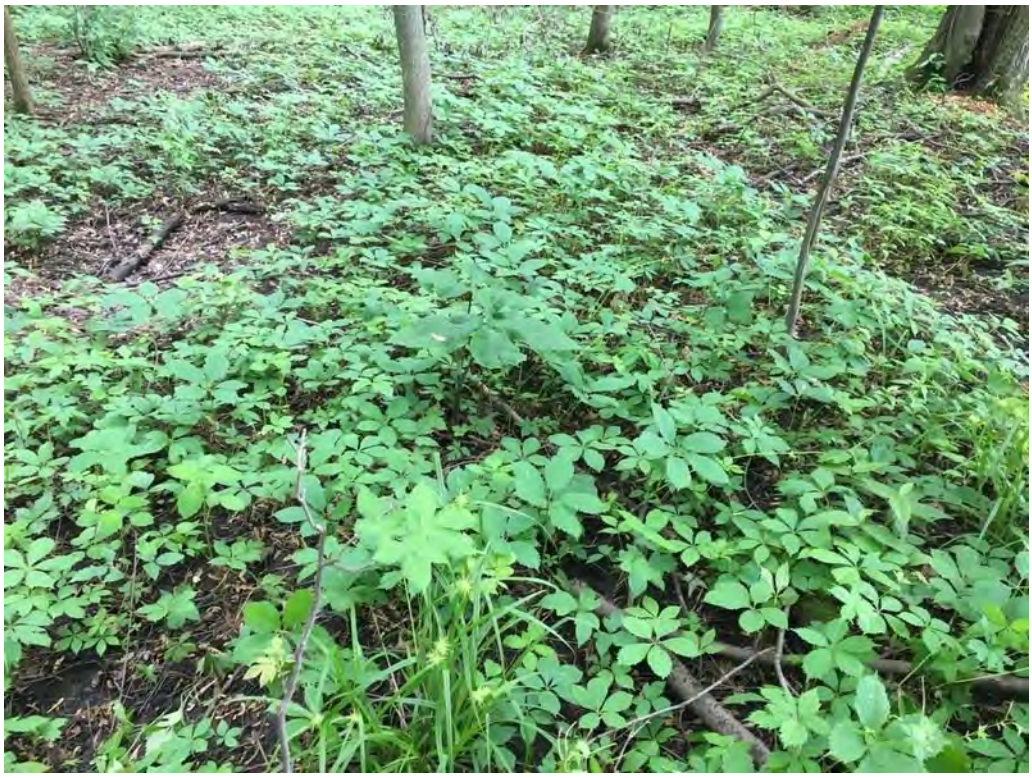
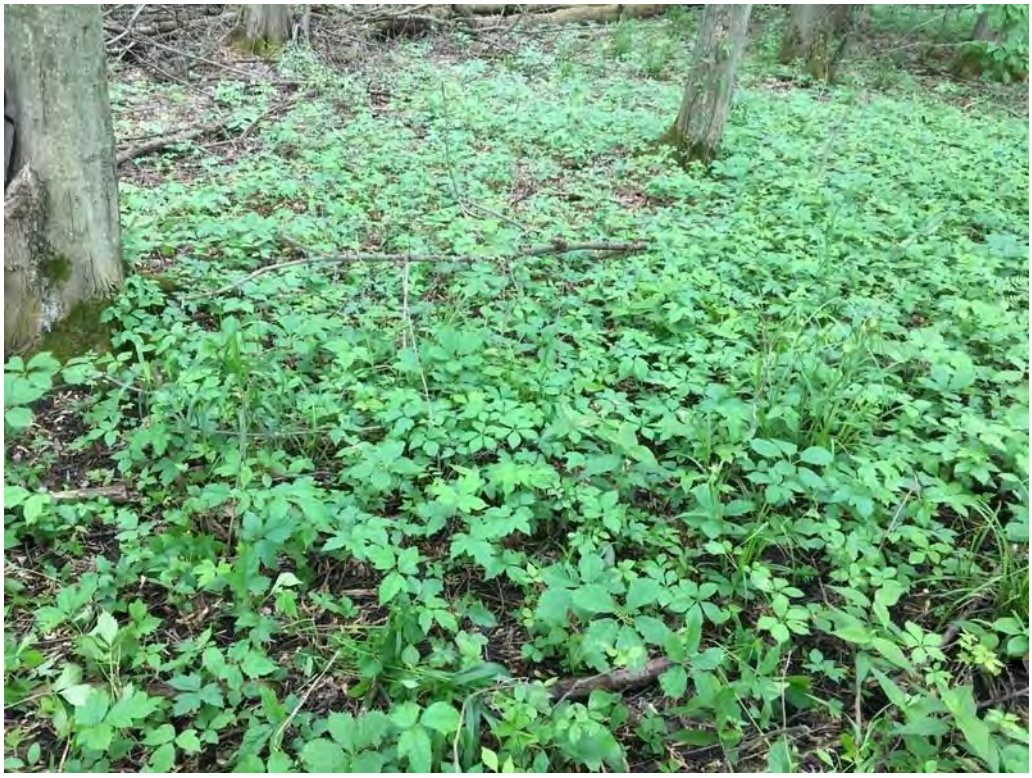
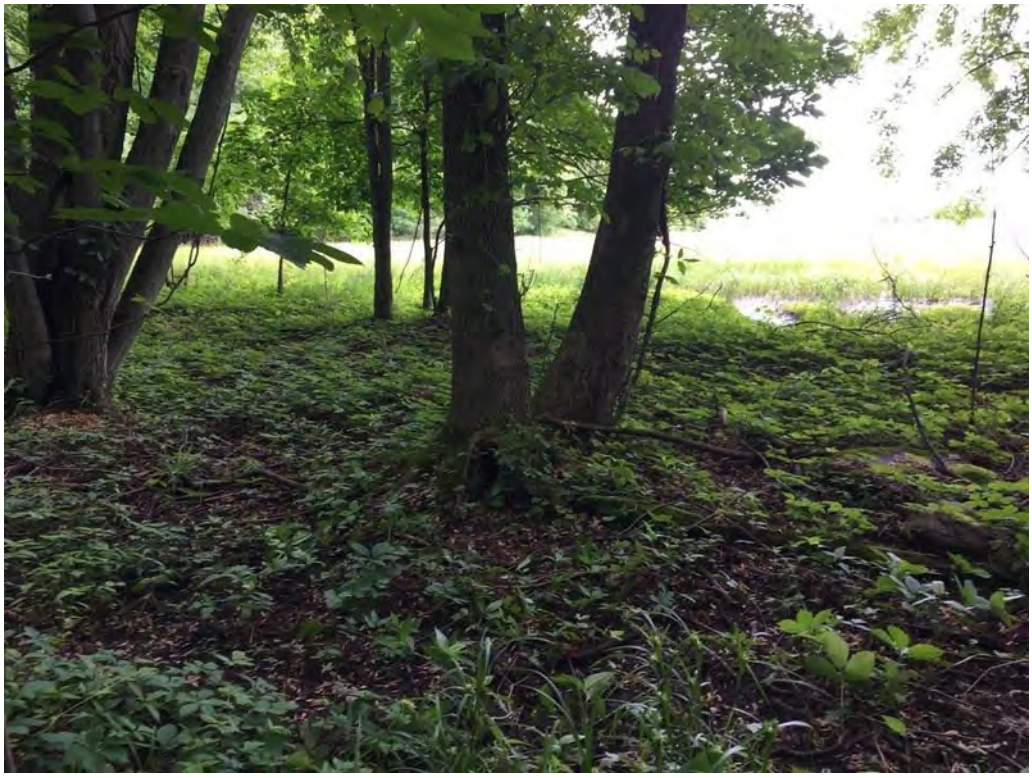


Photo of Sample Plot







## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-12
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-32; UPL-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Convex **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0553881964 **Long:** -78.0872586743 **Datum:** WGS84
**Soil Map Unit Name:** Ovid silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-32; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 0 (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-32; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 12 | 7.5YR 3/2 | 100 | | | | | Silty Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos

Soil Photos

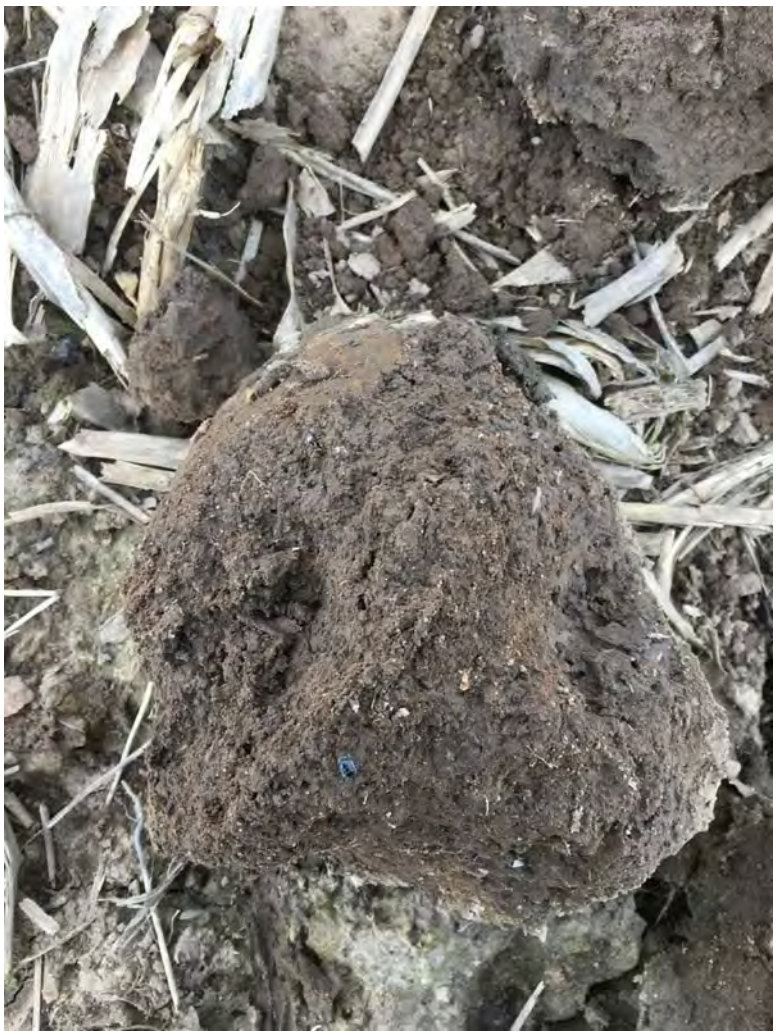
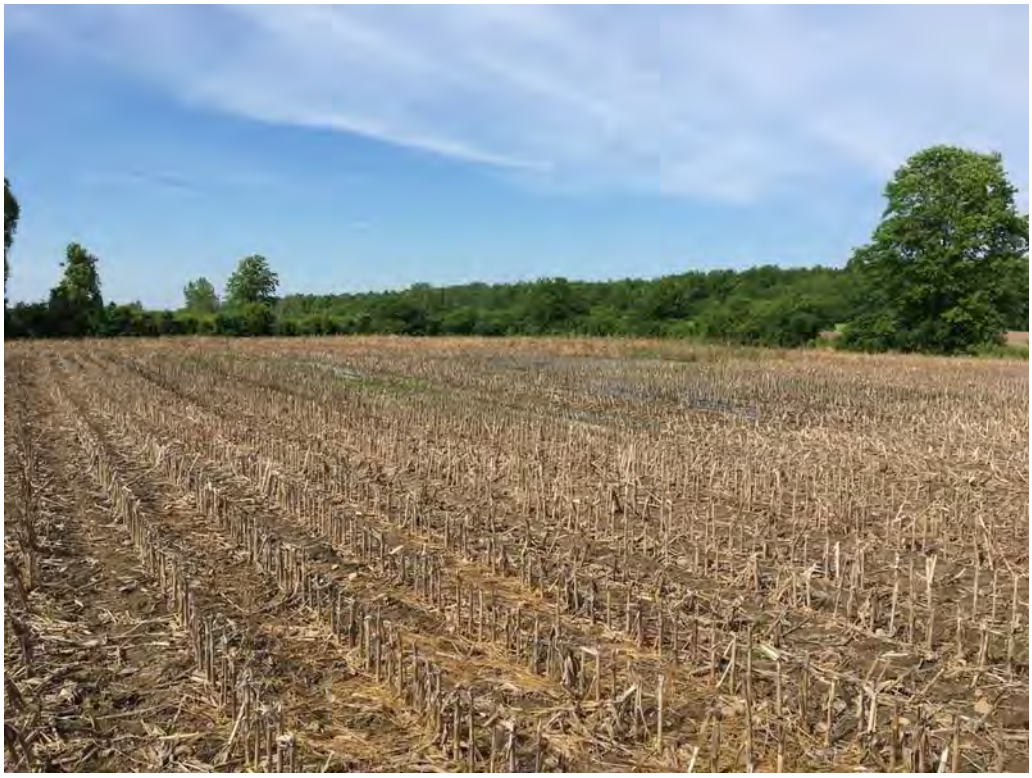
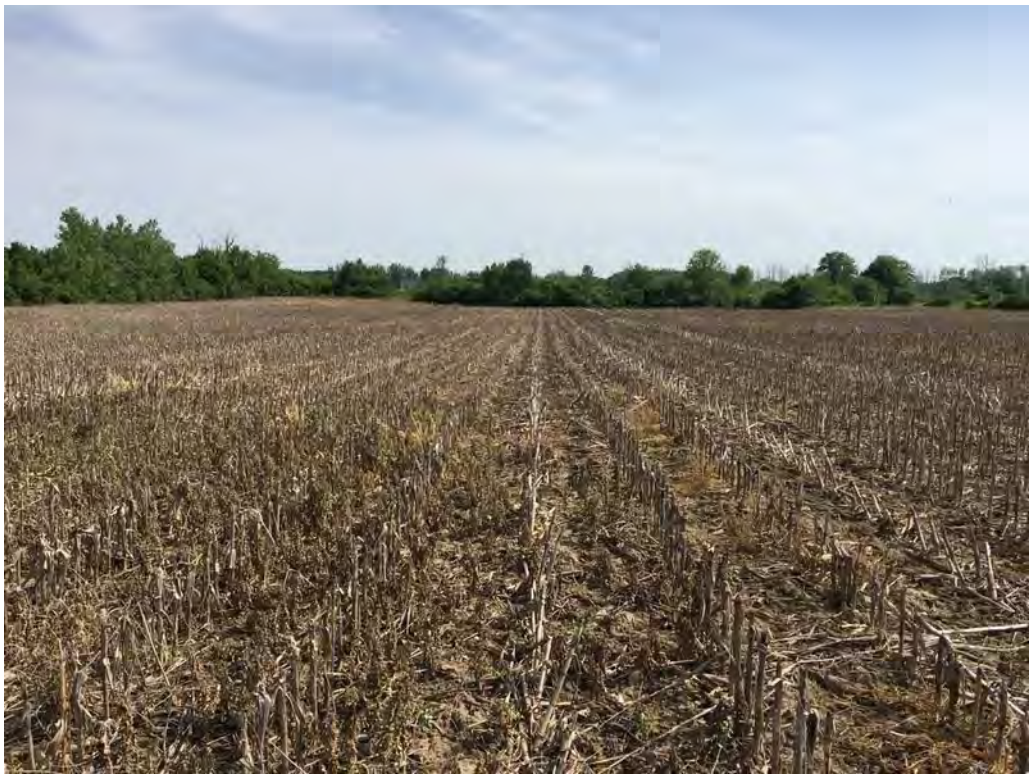


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-31
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-10; UPL-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0702420604 **Long:** -78.0586491433 **Datum:** WGS84
**Soil Map Unit Name:** Collamer silt loam, 2 to 6 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ✓, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

The hydrology criterion has been met. However, due to the absence of hydrophytic vegetation and/or hydric soils, this data point is within a non-wetland.

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-10; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Ambrosia artemisiifolia* | 85 | Yes | FACU |
| 2. *Poaceae* | 10 | No | NI |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 95 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 1 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 0 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 85 | x 4 = | 340 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 85 | (A) | 340 (B) |
| Prevalence Index = B/A = | 4 | | |

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-10; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 12 | 10YR 4/4 | 100 | | | | | Silt Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

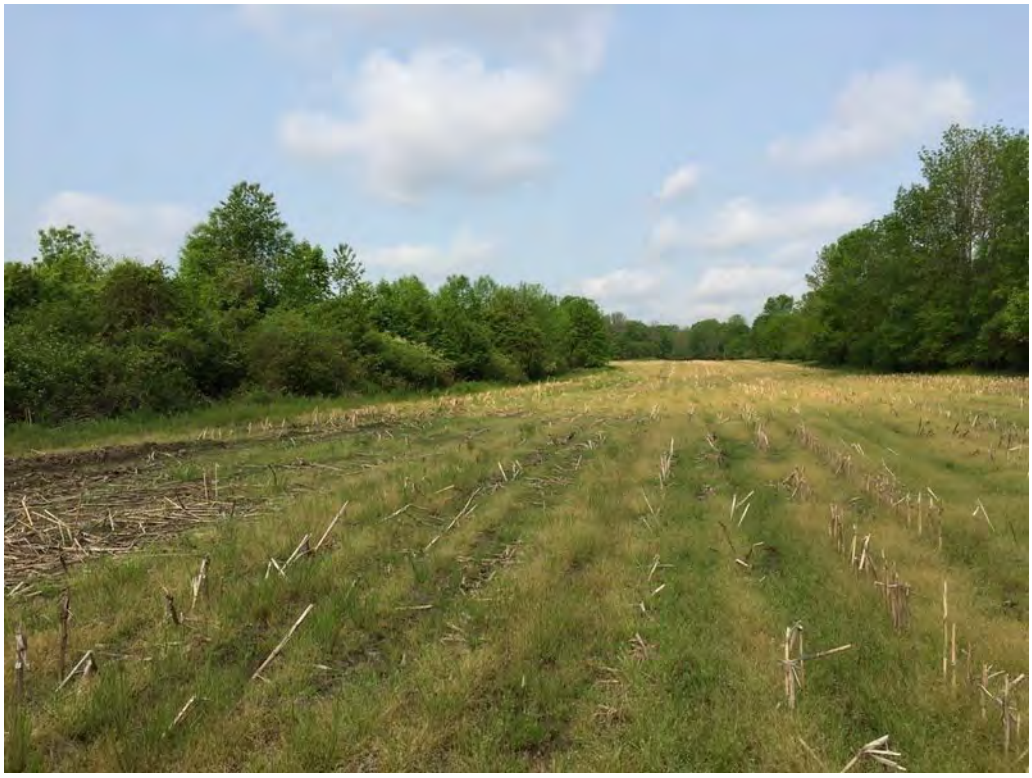
Type: None

Depth (inches):

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Photo of Sample Plot



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-30
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-07; PEM-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Swale **Local relief (concave, convex, none):** Concave **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0776822148 **Long:** -78.0499969237 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes _✓_ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes _✓_ 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 ____ | | |
| Hydric Soil Present? | Yes _✓_ No ____ | **Is the Sampled Area within a Wetland?** | **Yes _✓_ No ____** |
| Wetland Hydrology Present? | Yes _✓_ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-07 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PEM.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- _✓_ Surface Water (A1)
- _✓_ High Water Table (A2)
- _✓_ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- _✓_ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes _✓_ No ____ | Depth (inches): | 3 |
| Water Table Present? | Yes _✓_ No ____ | Depth (inches): | 6 |
| Saturation Present? (includes capillary fringe) | Yes _✓_ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes _✓_ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-07; PEM-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Phalaris arundinacea* | 85 | Yes | FACW |
| 2. *Poa pratensis* | 5 | No | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 90 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 1 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 85 | x 2 = | 170 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 5 | x 4 = | 20 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 90 | (A) | 190 (B) |
| Prevalence Index = B/A = | 2.1 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-07; PEM-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 12 | 7.5YR 4/1 | 90 | 10YR 4/6 | 10 | C | M/PL | Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

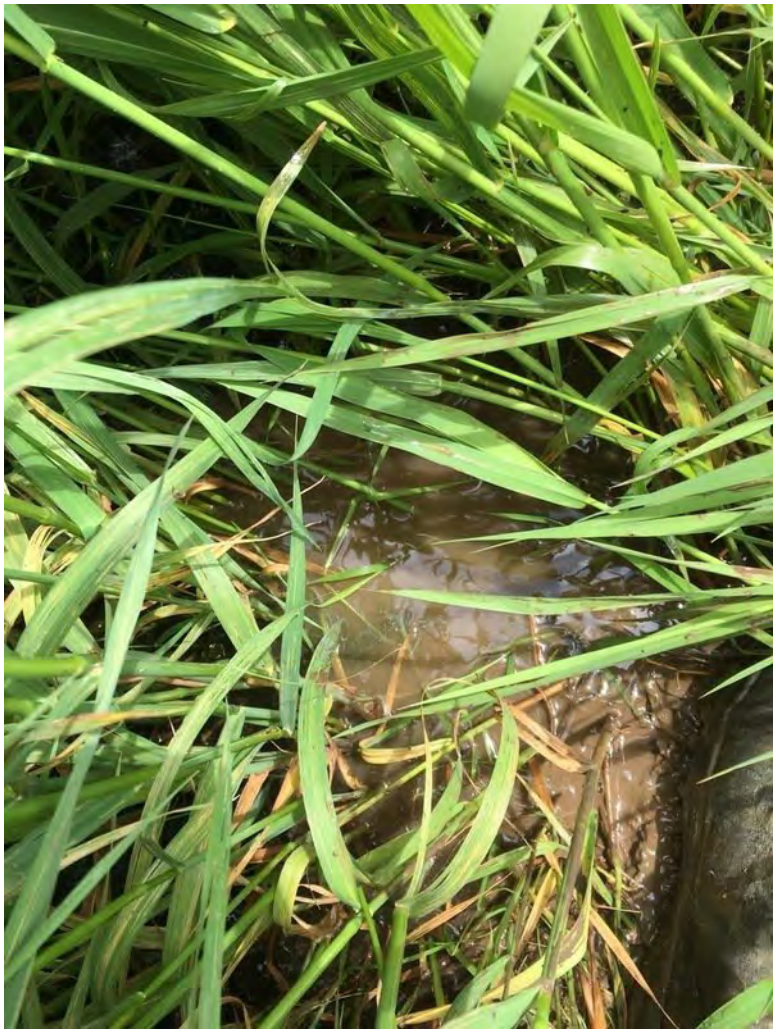
Type: None

Depth (inches):

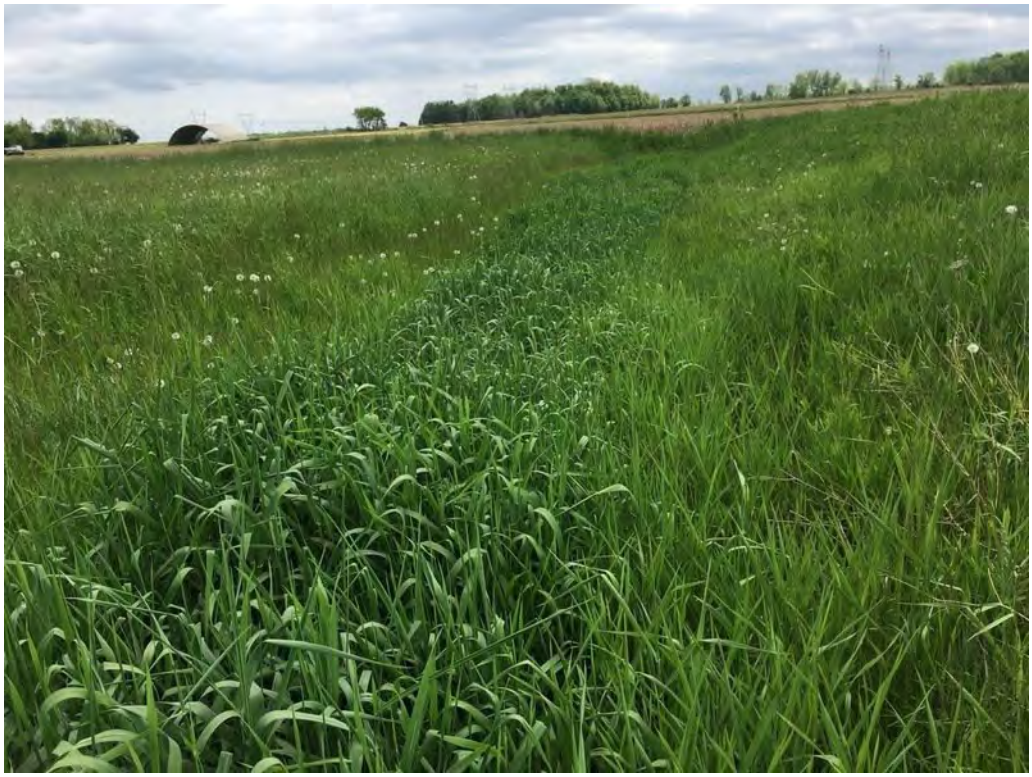
**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Hydrology Photos



Vegetation Photos



Soil Photos

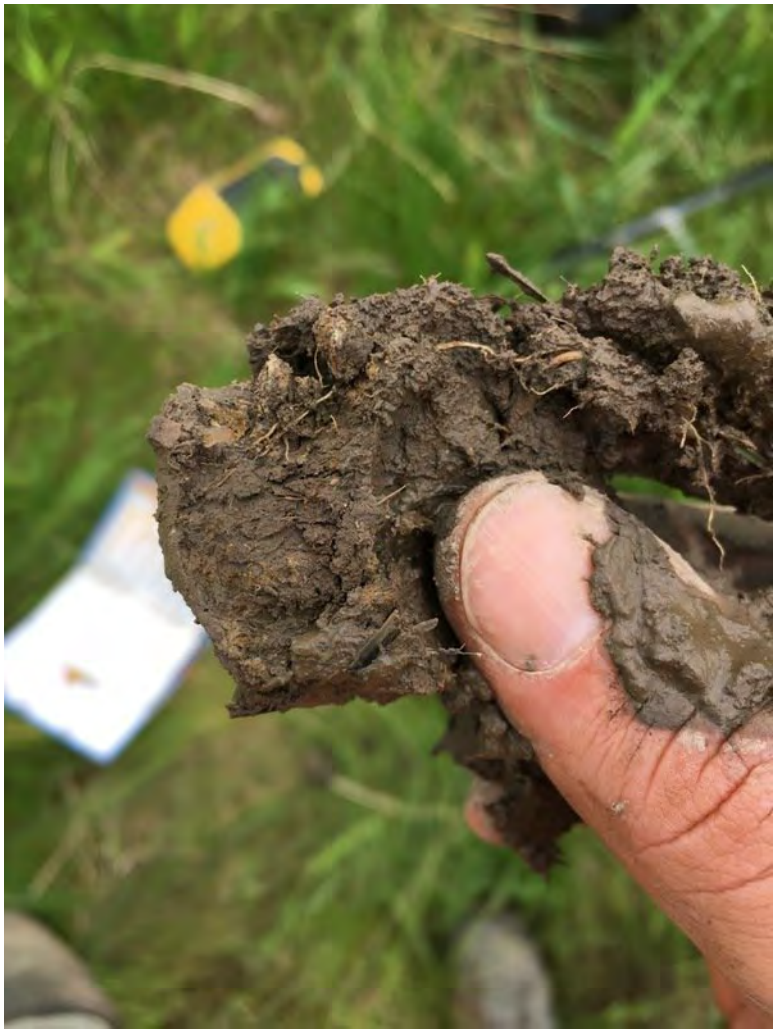
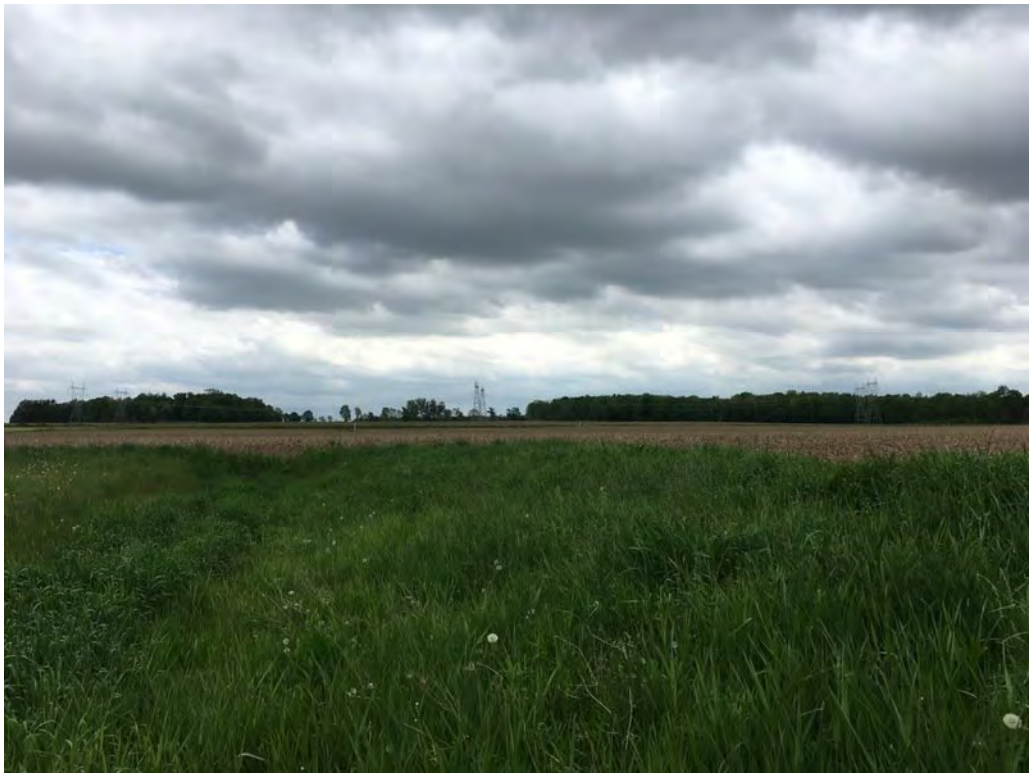
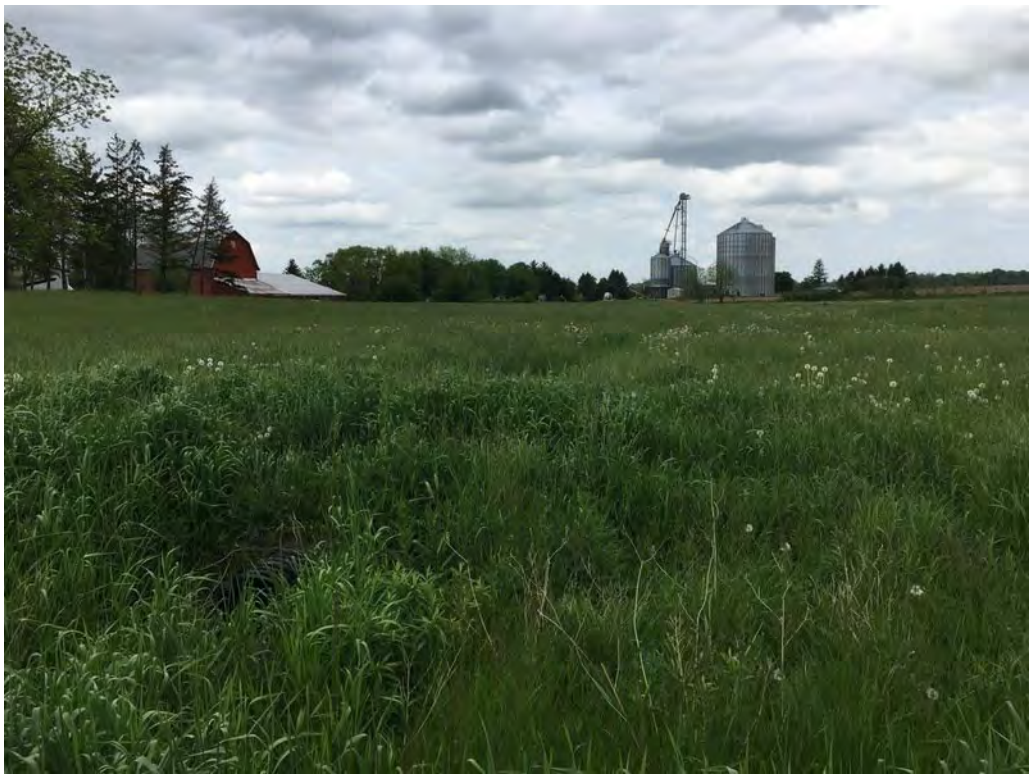


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-June-07
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JJB-23; PUB-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0711762 **Long:** -78.0730658 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:** PUBHh
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-23 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PUB. wet spring

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ✓ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ✓ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 36 |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 0 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-23; PUB-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 0 (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_✓_ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-23; PUB-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-29
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-06; UPL-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Flood Plain **Local relief (concave, convex, none):** None **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0859768 **Long:** -78.0914144 **Datum:** WGS84
**Soil Map Unit Name:** Wakeville silt loam **NWI classification:** None
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-06; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Phalaris arundinacea* | 35 | Yes | FACW |
| 2. *Holcus lanatus* | 20 | Yes | FACU |
| 3. *Solidago rugosa* | 15 | No | FAC |
| 4. *Alliaria petiolata* | 12 | No | FACU |
| 5. *Hesperis matronalis* | 12 | No | FACU |
| 6. *Arctium minus* | 8 | No | FACU |
| 7. *Galium aparine* | 5 | No | FACU |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 107 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. *Lonicera japonica* | 8 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 8 | = 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 | 35 | x 2 = | 70 |
| FAC species | 15 | x 3 = | 45 |
| FACU species | 65 | x 4 = | 260 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 115 | (A) | 375 (B) |
| Prevalence Index = B/A = | 3.3 | | |

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

SOIL

Sampling Point: W-JDV-06; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 5 | 10YR 4/3 | 100 | | | | | Silt Loam | |
| 5 - 15 | 10YR 4/4 | 98 | 10YR 5/1 | 2 | D | M | Silty Clay Loam | |
| | | | | | | | | |
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| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

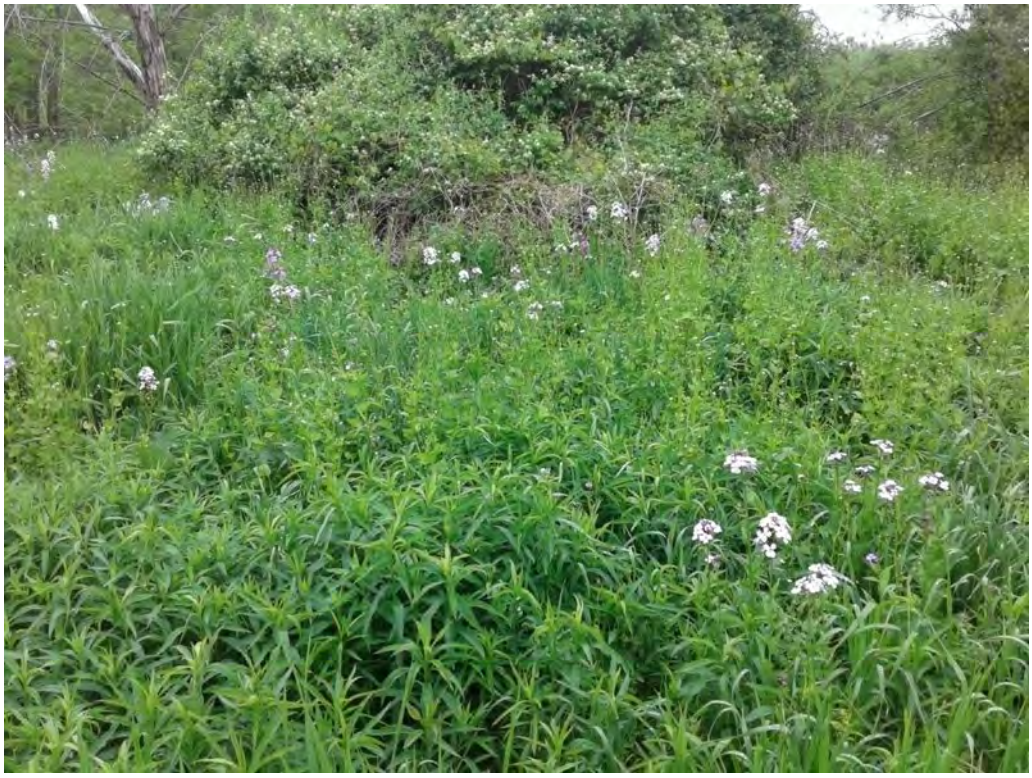
**Restrictive Layer (if observed):**

Type: Rocks/Gravel
Depth (inches): 15

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos



Soil Photos

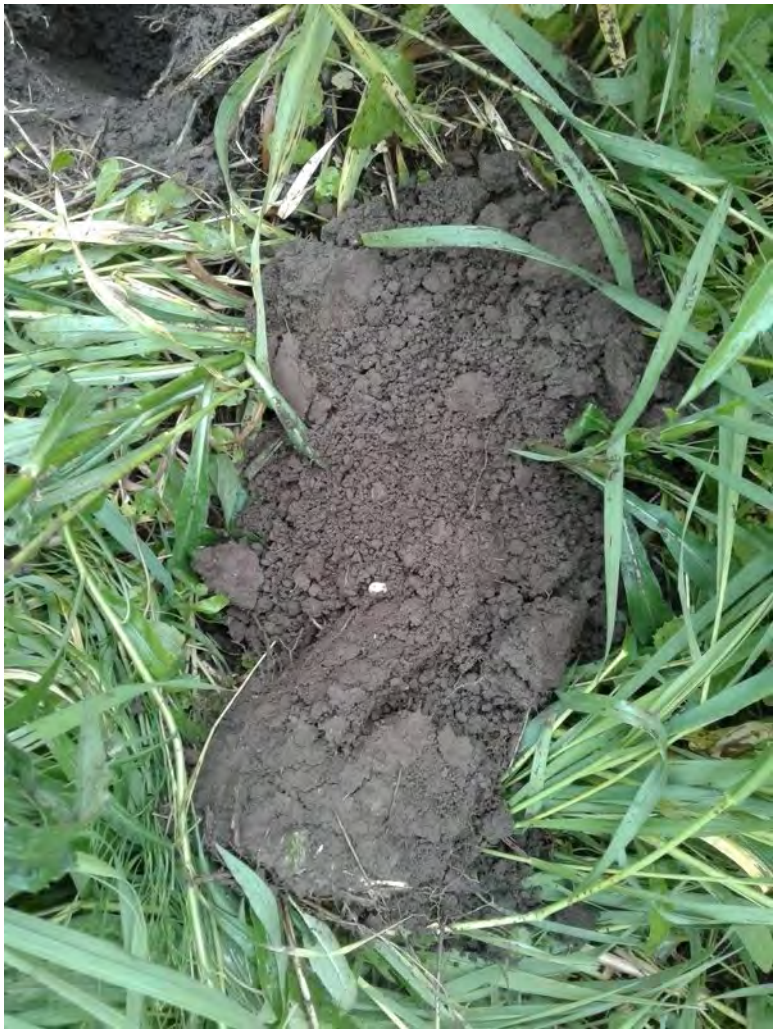
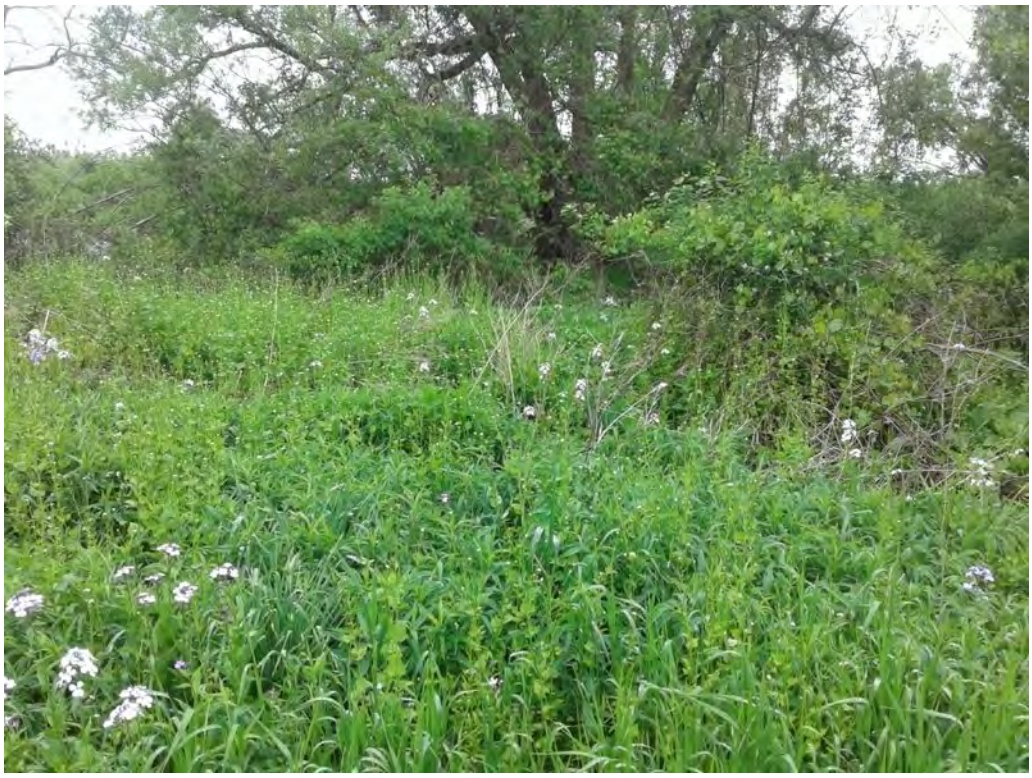
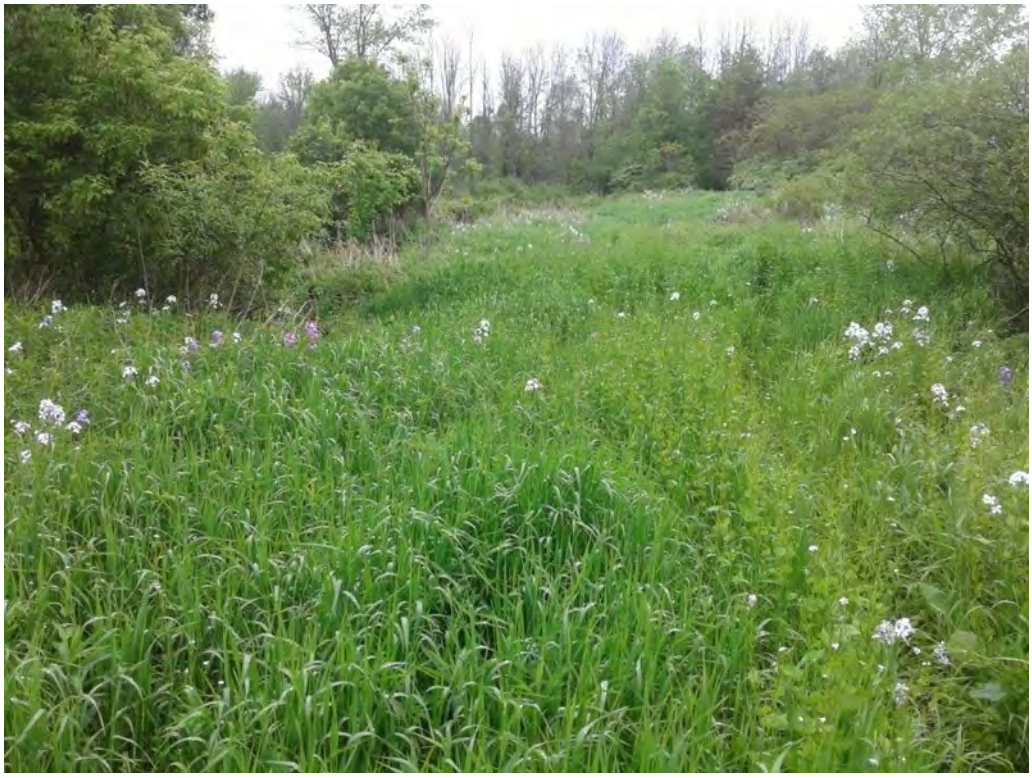
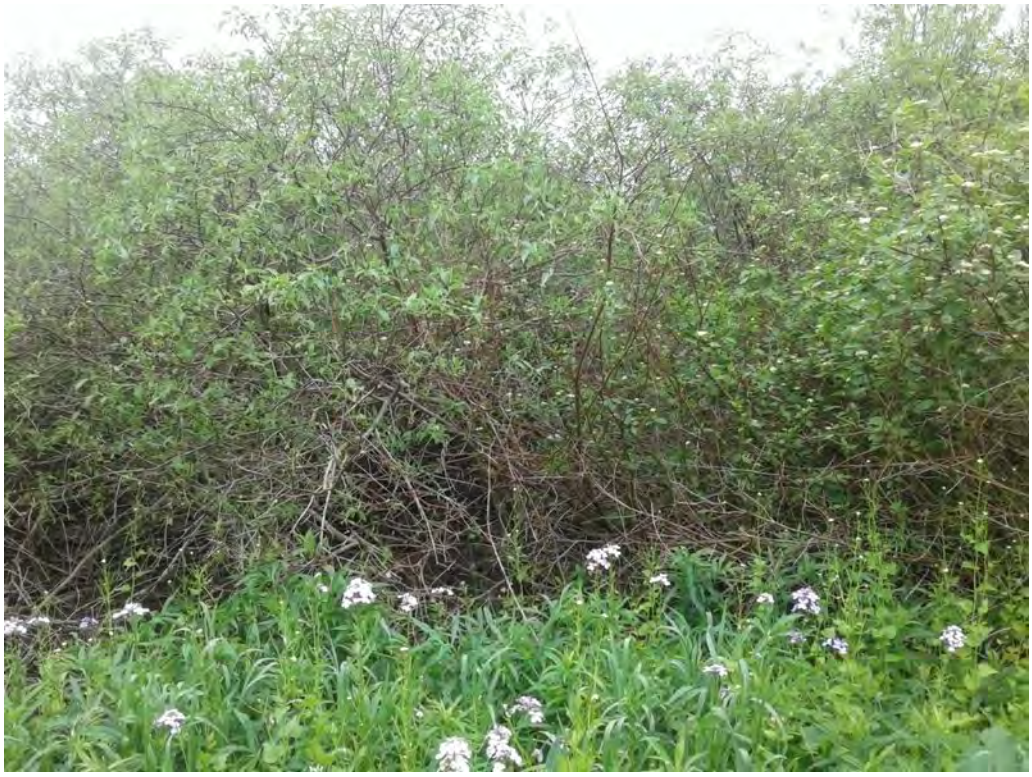
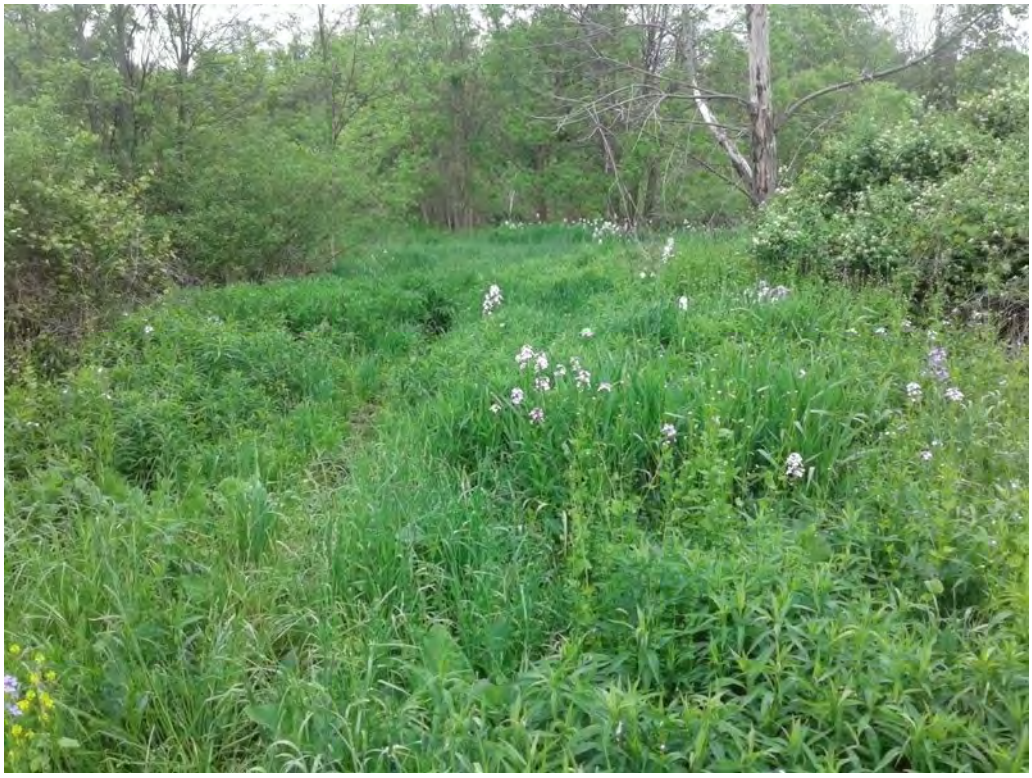


Photo of Sample Plot









## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-04
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-15; UPL-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0539949146 **Long:** -78.048179308 **Datum:** WGS84
**Soil Map Unit Name:** Ontario loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

✓ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-15; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 0 (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-15; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 5 | 10YR 3/3 | 100 | | | | | Gravelly Silt Loam | |
| 5 - 8 | 5YR 4/4 | 60 | 2.5Y 3/1 | 40 | D | M | Silty Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

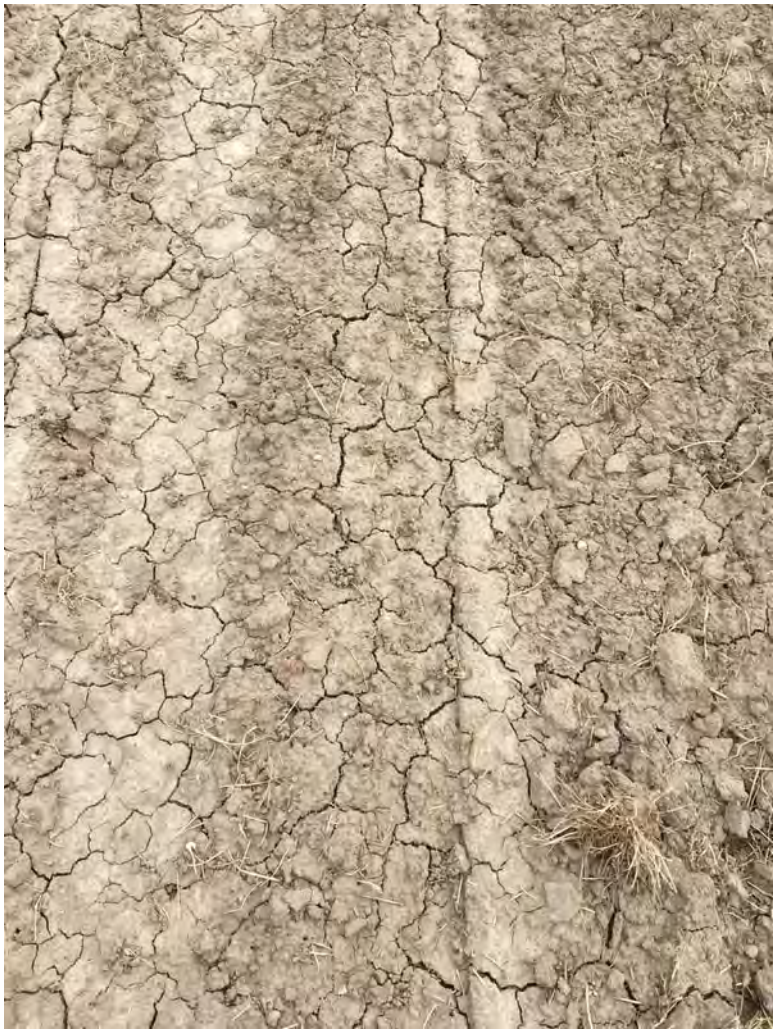
**Restrictive Layer (if observed):**

Type: Hard pan
Depth (inches): 8

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos



Soil Photos

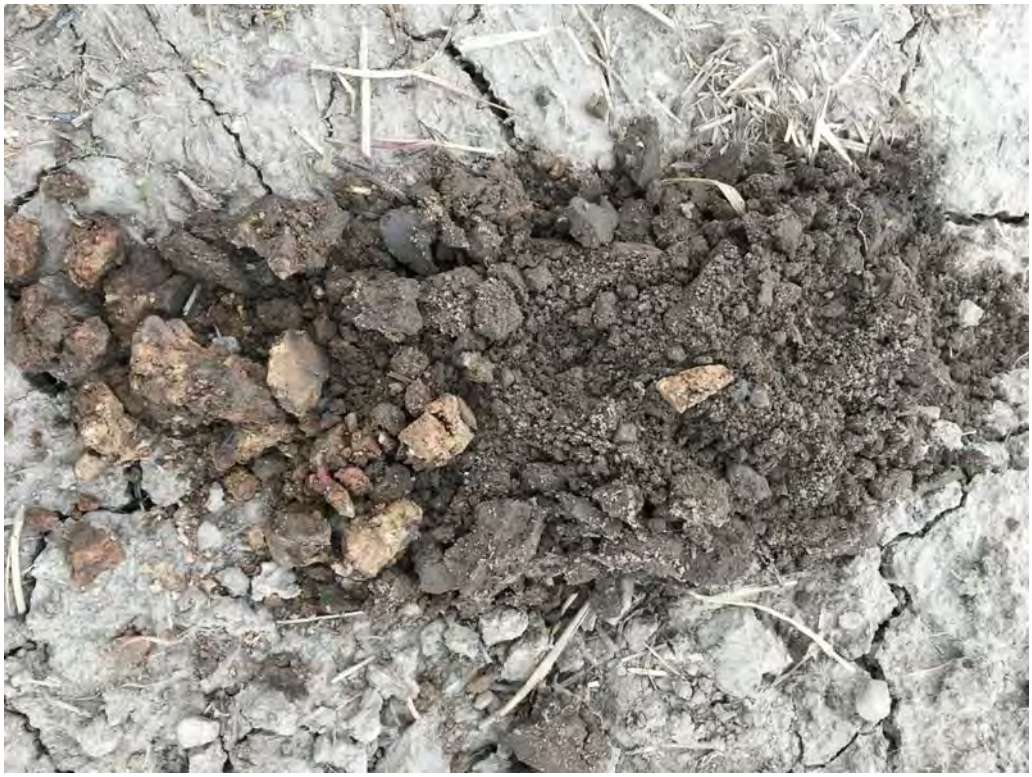
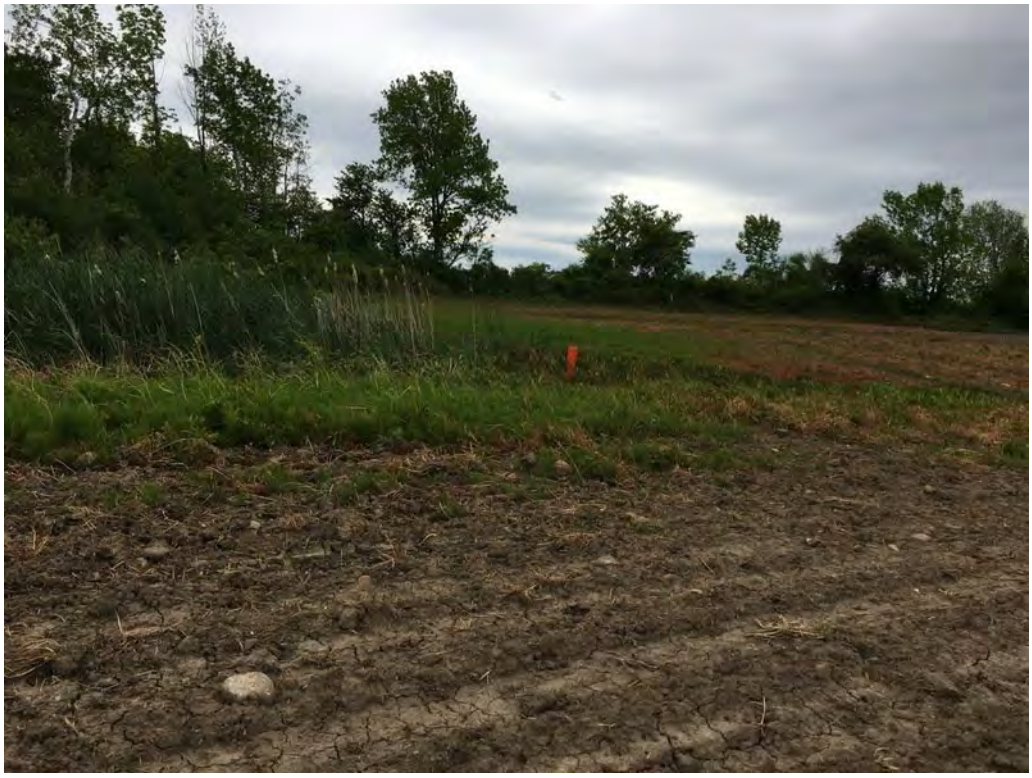
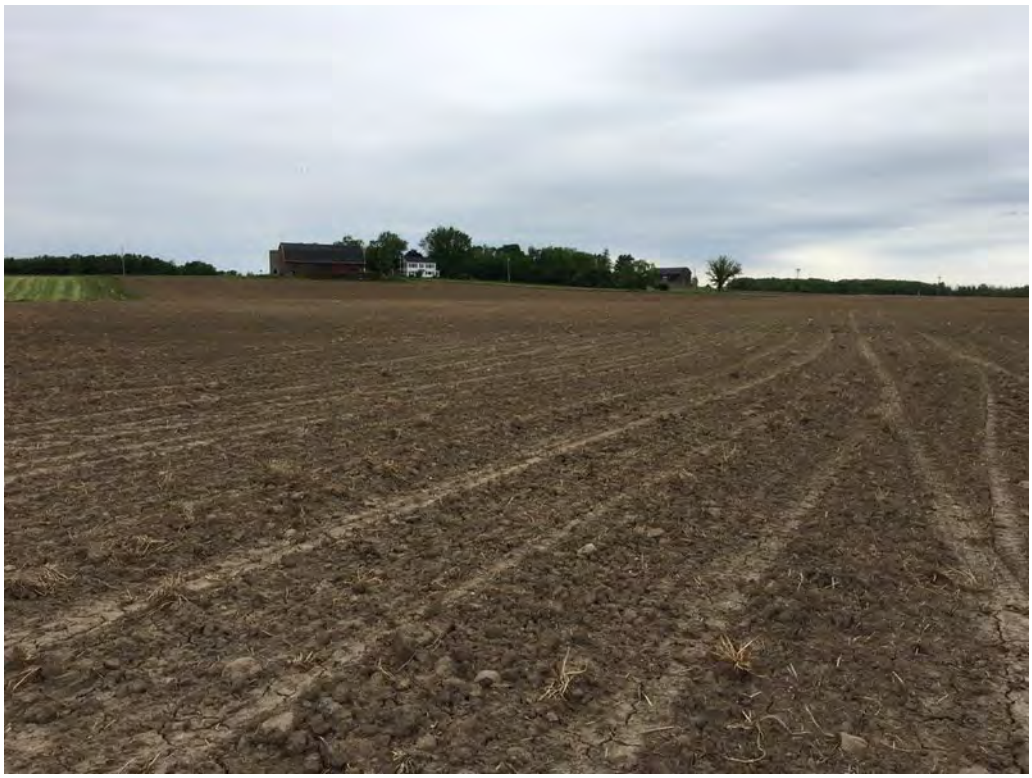


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-29
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-04; UPL-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Hillslope **Local relief (concave, convex, none):** Convex **Slope (%):** 2-5
**Subregion (LRR or MLRA):** LRR R **Lat:** 43.0712796981 **Long:** -78.0533949473 **Datum:** WGS84
**Soil Map Unit Name:** Lima silt loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-04; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer saccharum* | 35 | Yes | FACU |
| 2. *Carya cordiformis* | 10 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 45 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Acer saccharum* | 12 | Yes | FACU |
| 2. *Lindera benzoin* | 5 | Yes | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 17 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Fraxinus americana* | 20 | Yes | FACU |
| 2. *Acer saccharum* | 5 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 25 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. *Vitis riparia* | 5 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 5 | = 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: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 42.9 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 5 | x 2 = | 10 |
| FAC species | 15 | x 3 = | 45 |
| FACU species | 72 | x 4 = | 288 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 92 | (A) | 343 (B) |

Prevalence Index = B/A = 3.7

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

SOIL

Sampling Point: W-JJB-04; UPL-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 13 | 10YR 2/2 | 100 | | | | | Silt Loam | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rocks
Depth (inches): 13

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-11
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-29; UPL-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0608218744 **Long:** -78.0906348903 **Datum:** WGS84
**Soil Map Unit Name:** Galen very fine sandy loam, 2 to 6 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-29; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: **0** (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-29; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 10 | 10YR 4/3 | 100 | | | | | Silty Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: rock encountered
Depth (inches): 10

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos

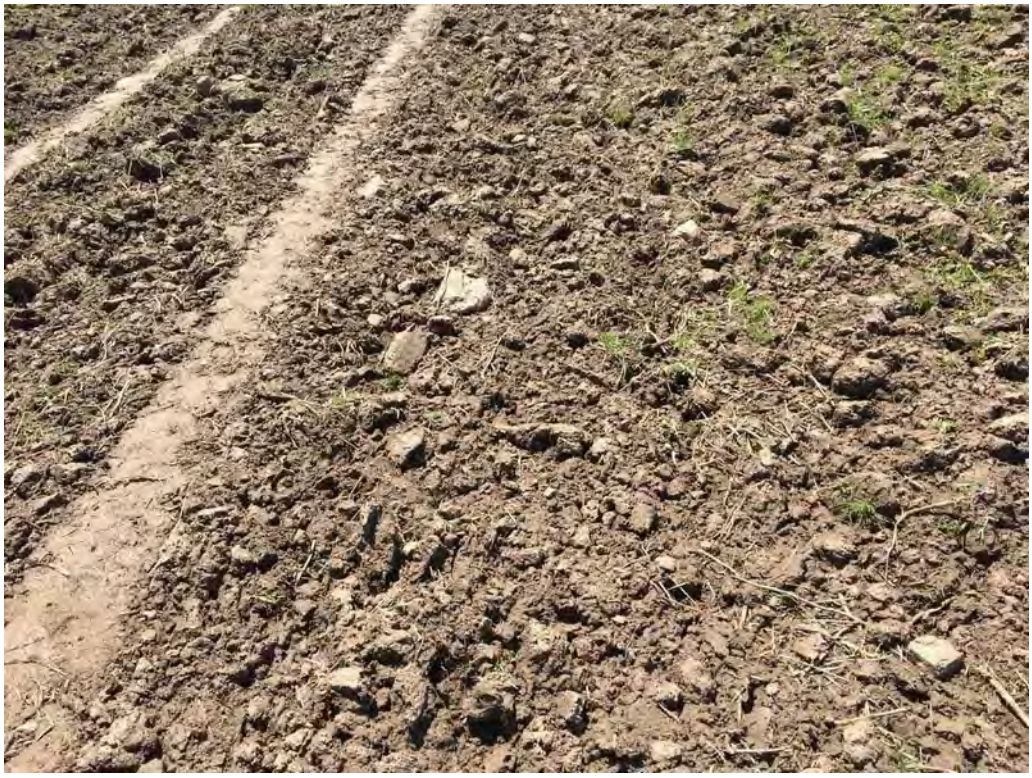
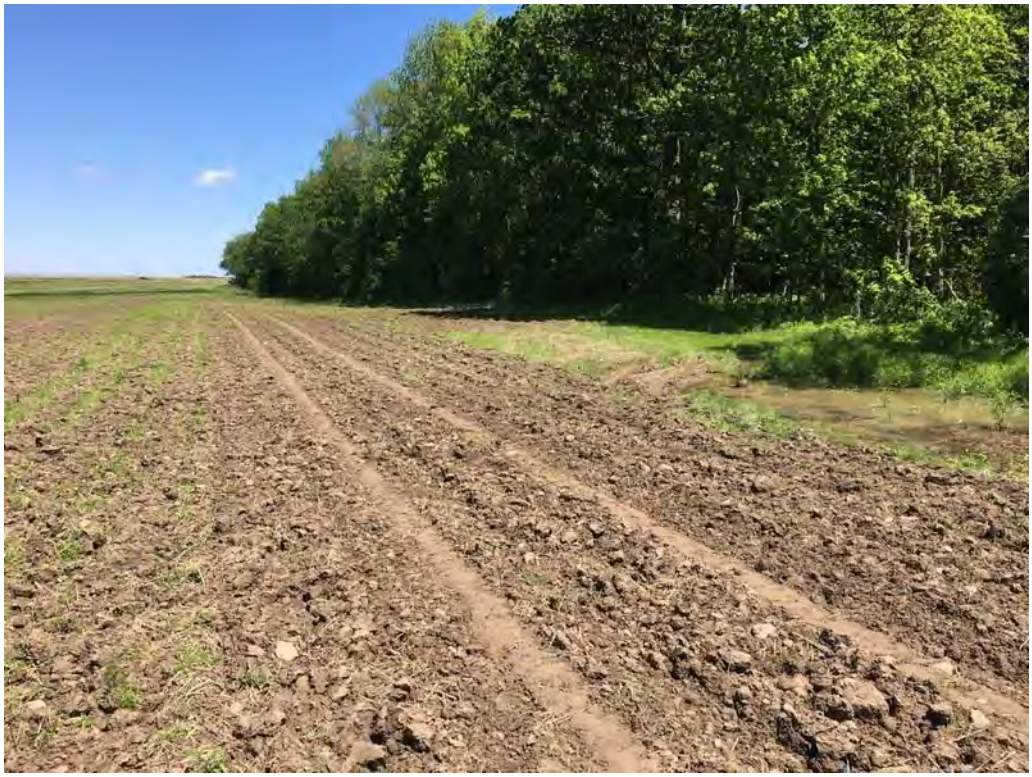
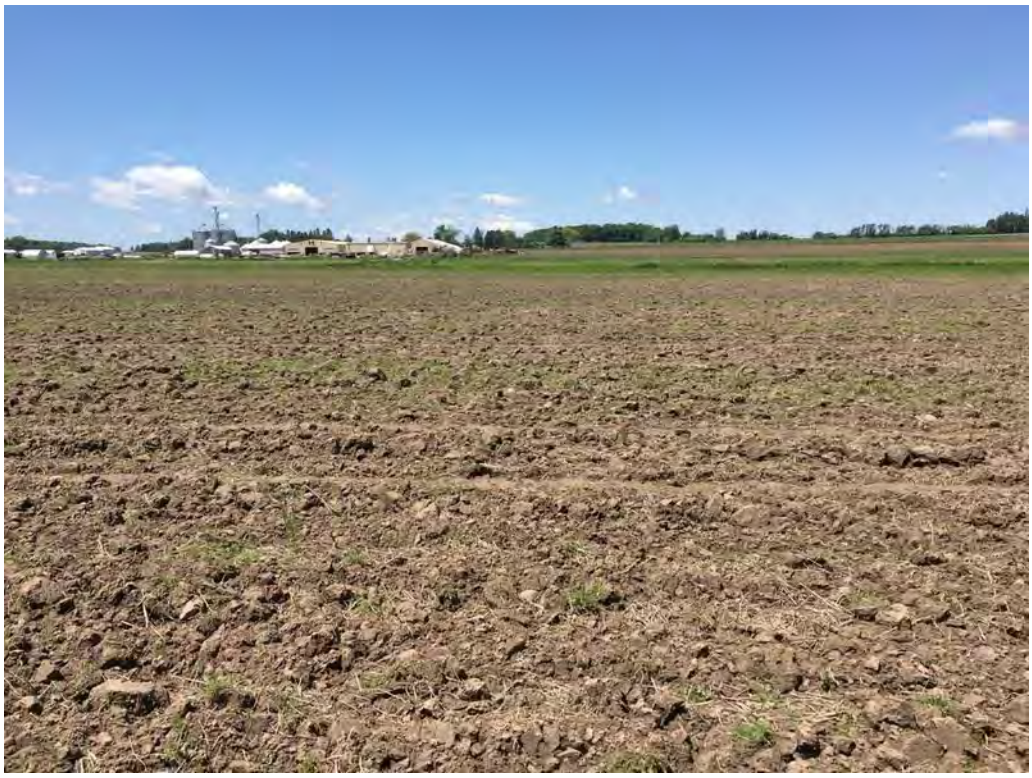
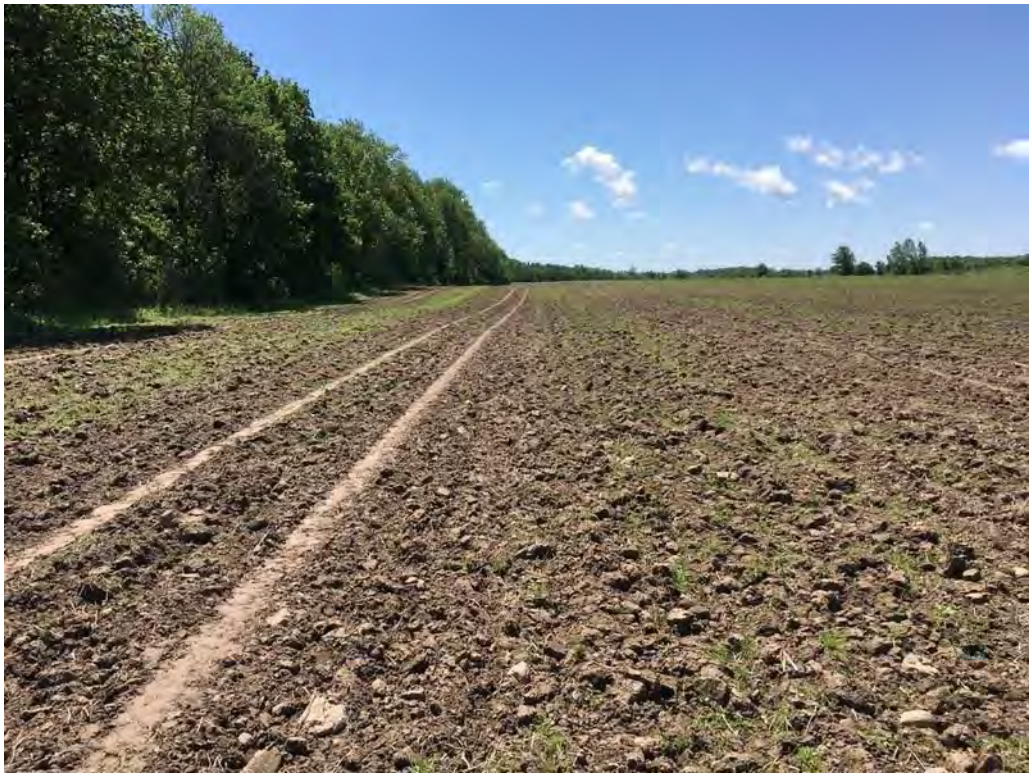


Photo of Sample Plot







## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-28
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-03; PUB-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0806724 **Long:** -78.0455767 **Datum:** WGS84
**Soil Map Unit Name:** Ontario loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes _✓_ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes _✓_ 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 ____ | | |
| Hydric Soil Present? | Yes _✓_ No ____ | **Is the Sampled Area within a Wetland?** | **Yes _✓_ No ____** |
| Wetland Hydrology Present? | Yes _✓_ No ____ | **If yes, optional Wetland Site ID:** | W-JDV-03 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PUB. Ponded PUB within a PEM wetland

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- _✓_ Surface Water (A1)
- _✓_ High Water Table (A2)
- _✓_ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- _✓_ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes _✓_ No ____ | Depth (inches): | 10 |
| Water Table Present? | Yes _✓_ No ____ | Depth (inches): | 0 |
| Saturation Present? (includes capillary fringe) | Yes _✓_ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes _✓_ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-03; PUB-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 0 (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_✓_ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

ponded

SOIL

Sampling Point: W-JDV-03; PUB-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
_✓_ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

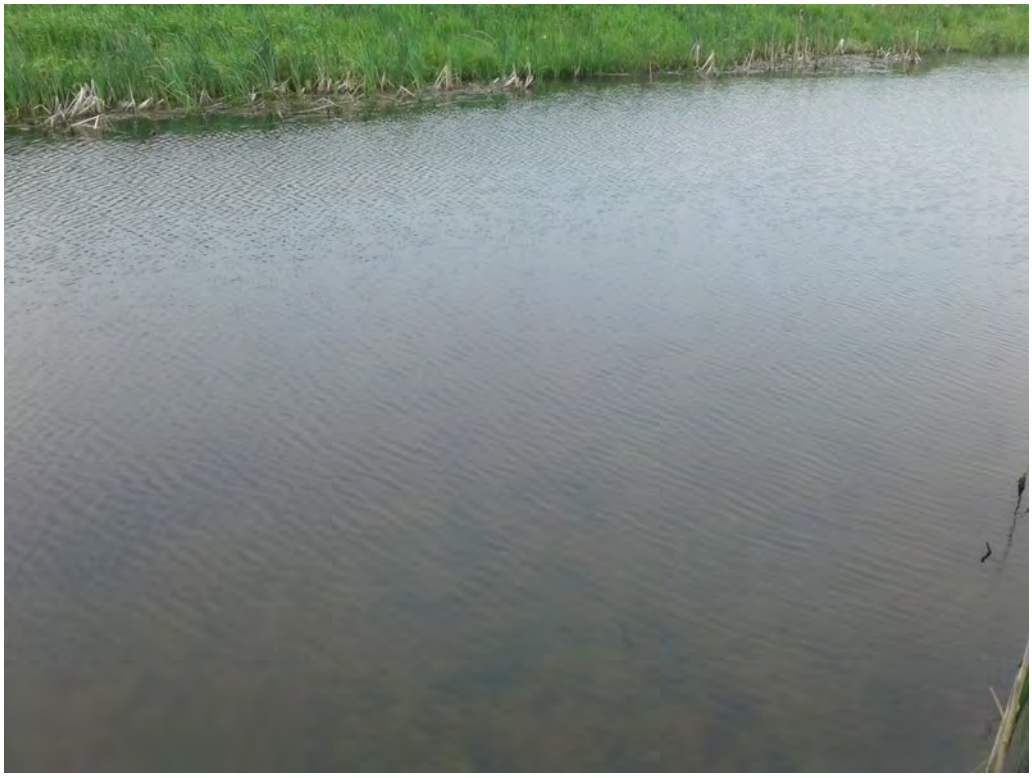
Type: Ponded
Depth (inches): 0

**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Due to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric.

Vegetation Photos



Soil Photos

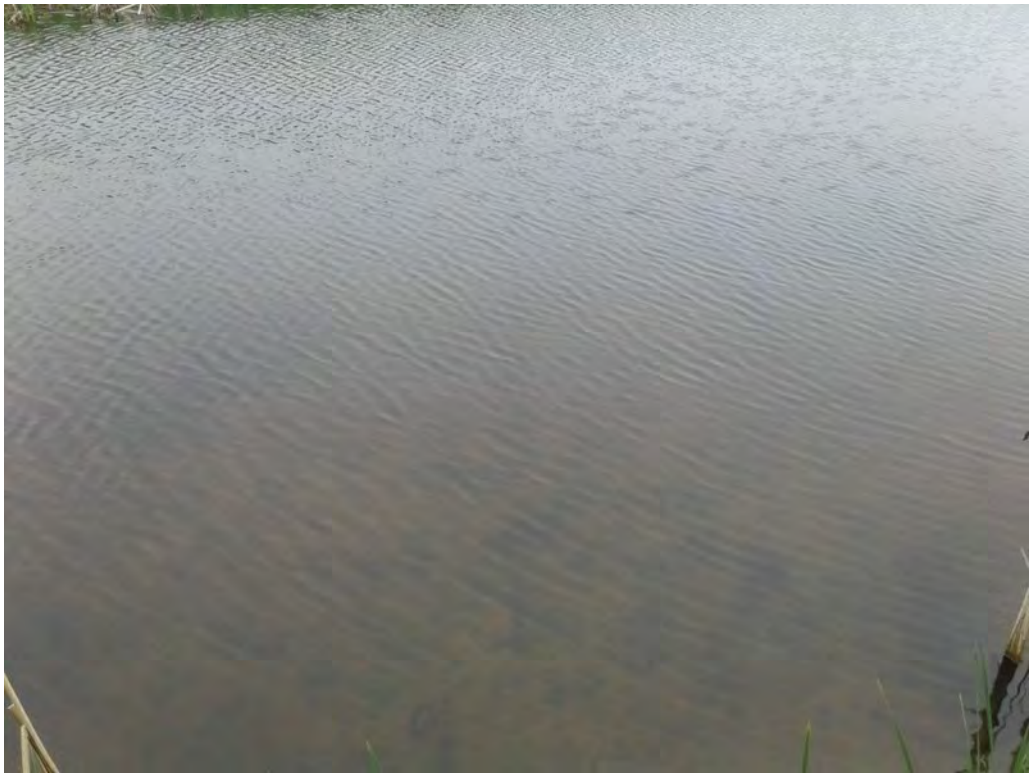
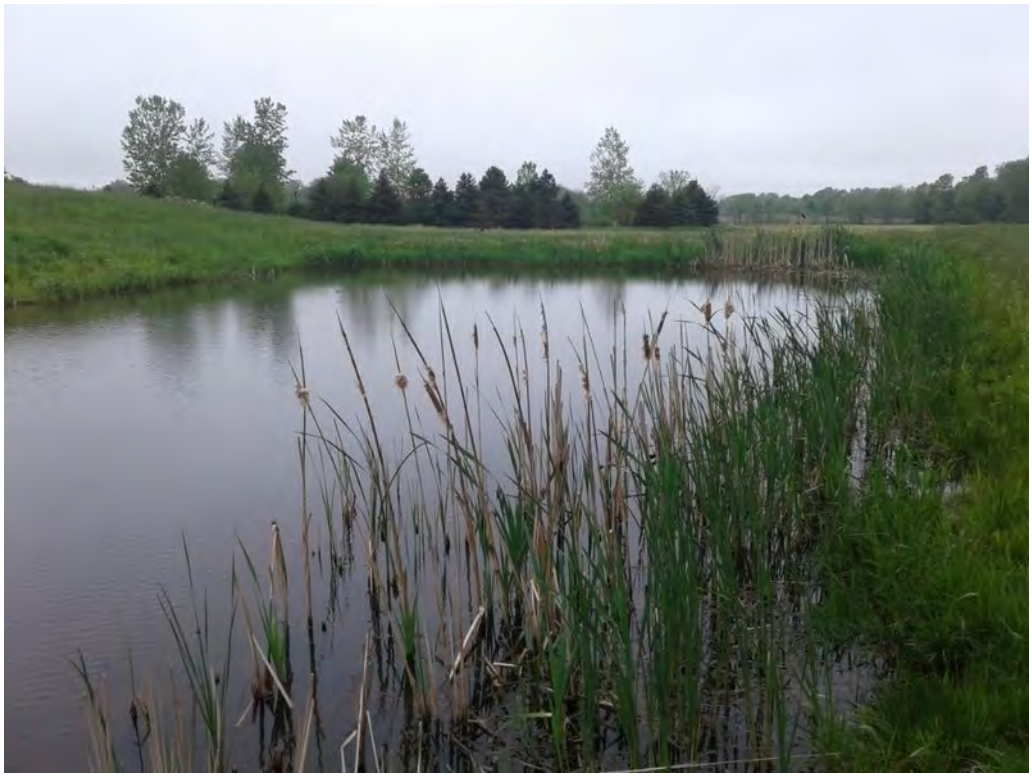
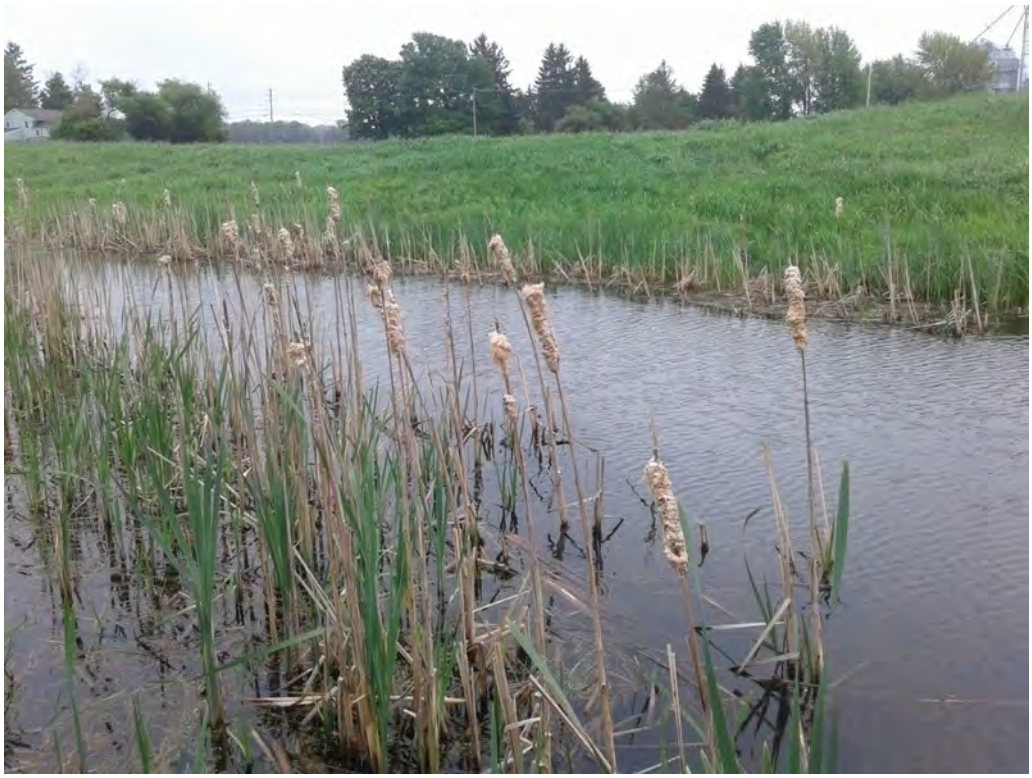


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-31
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-10; PEM-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Swale **Local relief (concave, convex, none):** Concave **Slope (%):** 2-5
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0695918722 **Long:** -78.0635016419 **Datum:** WGS84
**Soil Map Unit Name:** Ontario loam, 0 to 3 percent slopes **NWI classification:** R4SBAx
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-10 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ✓ Surface Soil Cracks (B6)
- ✓ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-10; PEM-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Phalaris arundinacea* | 60 | Yes | FACW |
| 2. *Rumex crispus* | 35 | Yes | FAC |
| 3. *Solidago gigantea* | 10 | No | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 105 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 2 | (A) |
| Total Number of Dominant Species Across All Strata: | 2 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 70 | x 2 = | 140 |
| FAC species | 35 | x 3 = | 105 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 105 (A) | | 245 (B) |
| Prevalence Index = B/A = | 2.3 | | |

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_✓_ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

Active agricultural field

SOIL

Sampling Point: W-JJB-10; PEM-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 16 | 10YR 4/2 | 88 | 7.5YR 4/6 | 12 | C | M/PL | Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Soil Photos

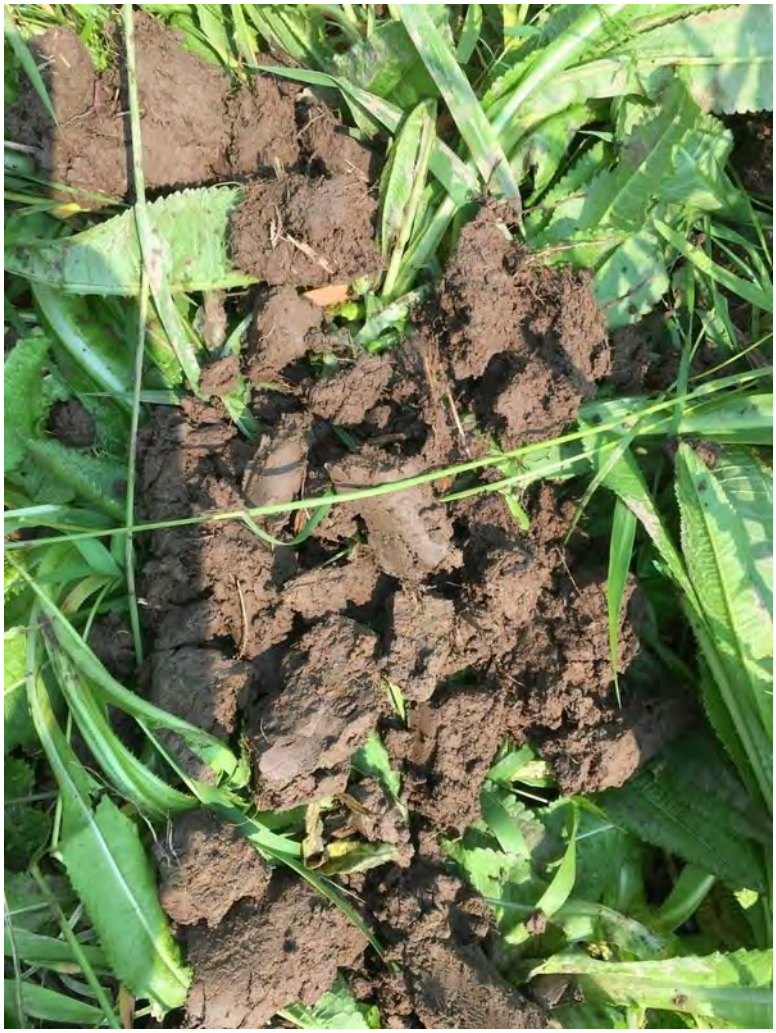
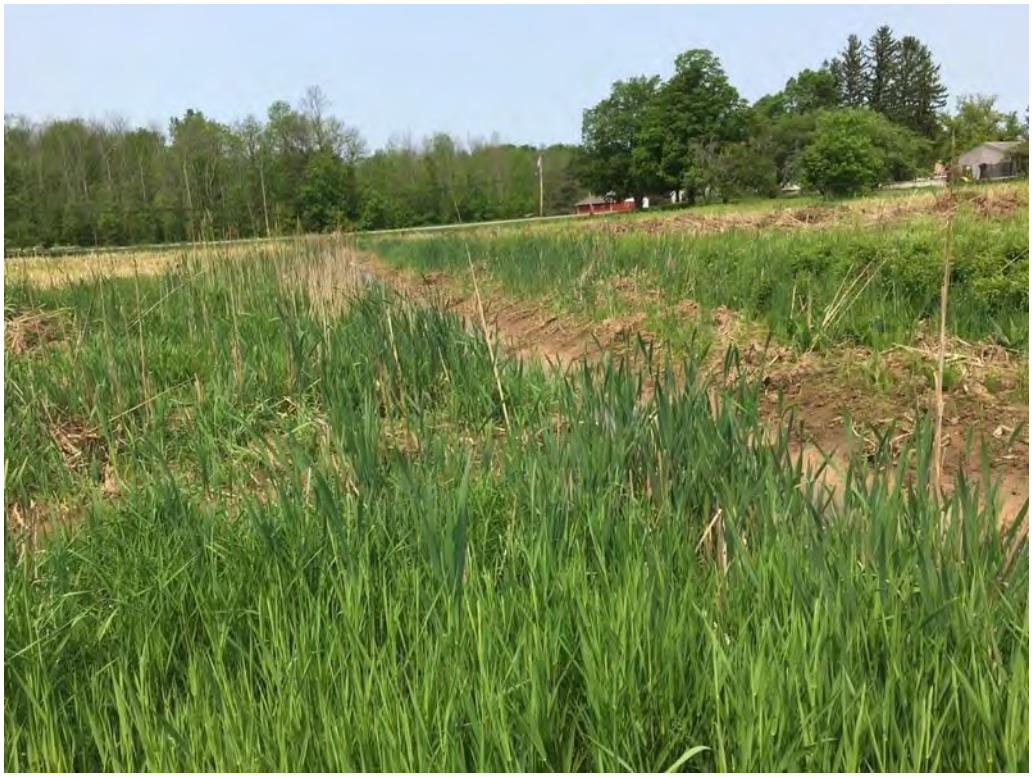
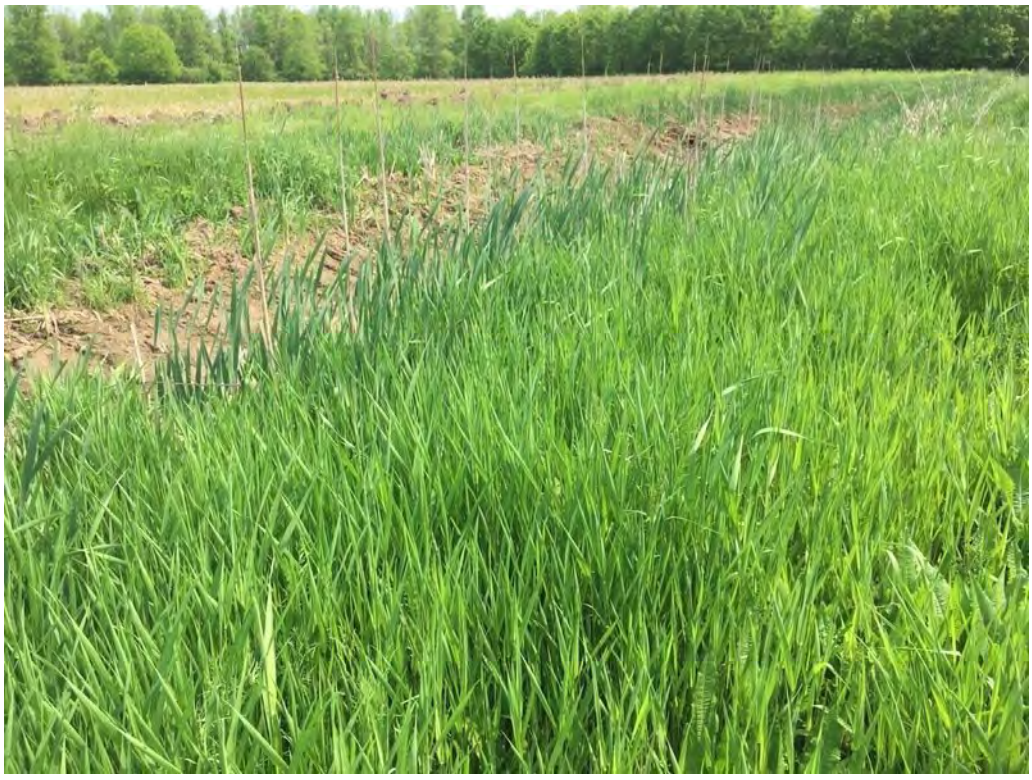


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-12
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-33; PEM-1
**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0560347345 **Long:** -78.0884694402 **Datum:** WGS84
**Soil Map Unit Name:** Lamson very fine sandy loam **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-33 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PEM. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 4 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-33; PEM-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Phragmites australis* | 85 | Yes | FACW |
| 2. *Solanum dulcamara* | 10 | No | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 95 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 1 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 85 | x 2 = | 170 |
| FAC species | 10 | x 3 = | 30 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 95 | (A) | 200 (B) |
| Prevalence Index = B/A = | 2.1 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-33; PEM-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 8 | 10YR 3/2 | 95 | 7.5YR 3/4 | 5 | C | M/PL | Silt Loam | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

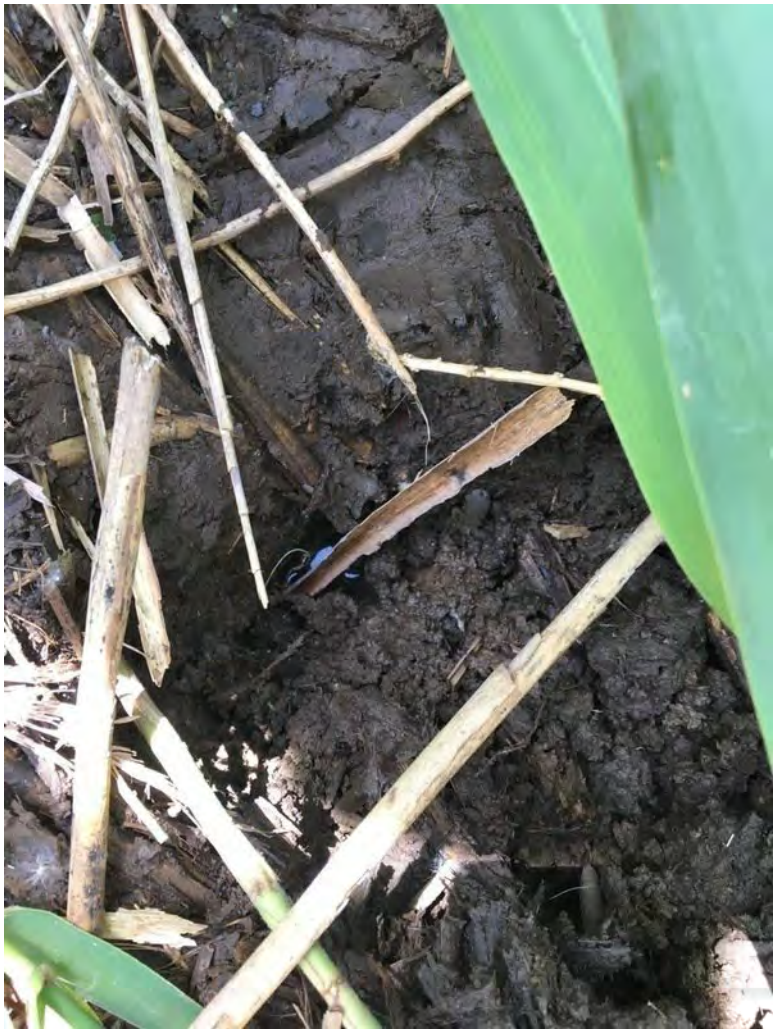
**Restrictive Layer (if observed):**

Type: Thick roots
Depth (inches): 8

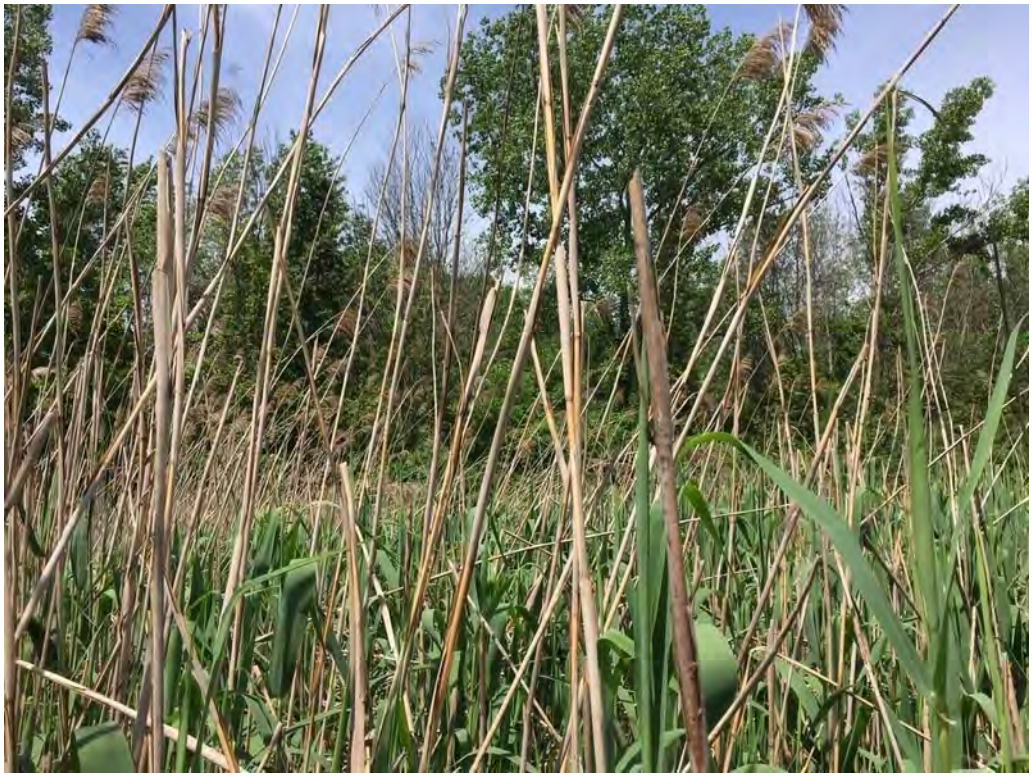
**Hydric Soil Present?** Yes ✓ No ____

**Remarks:**

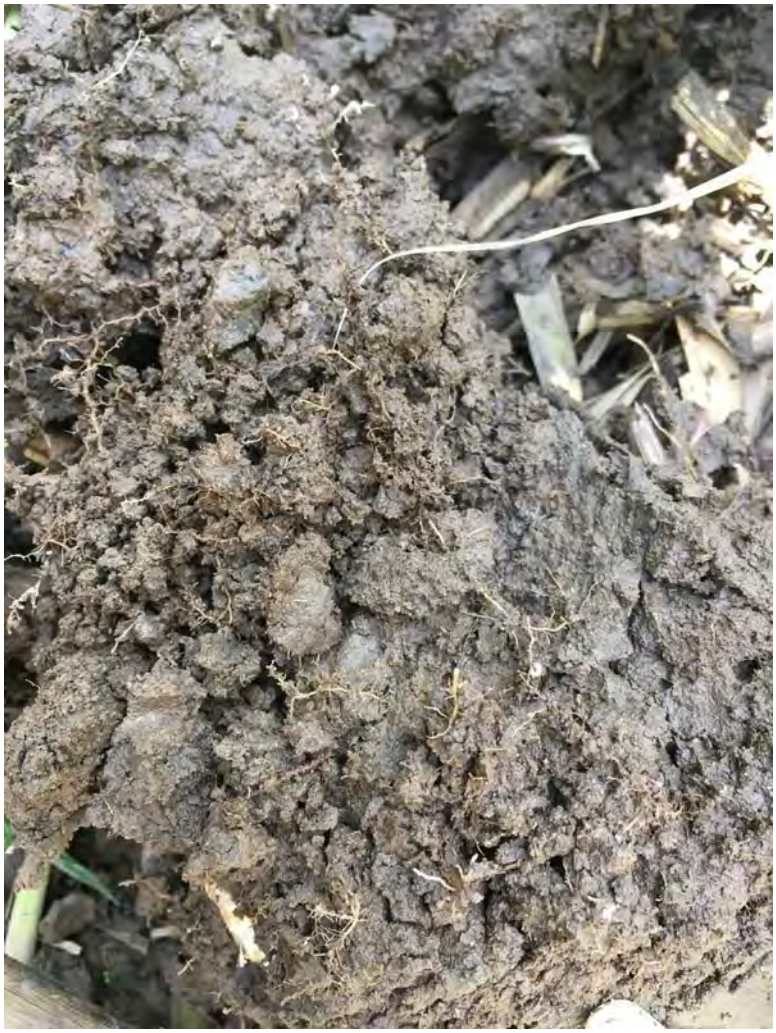
Hydrology Photos



Vegetation Photos



Soil Photos



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-29
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-04; PFO-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 2-5
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0713147764 **Long:** -78.0535064266 **Datum:** WGS84
**Soil Map Unit Name:** Lima silt loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes _✓_ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes _✓_ 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 ____ | | |
| Hydric Soil Present? | Yes _✓_ No ____ | **Is the Sampled Area within a Wetland?** | **Yes _✓_ No ____** |
| Wetland Hydrology Present? | Yes _✓_ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-04 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- _✓_ Surface Water (A1)
- _✓_ High Water Table (A2)
- _✓_ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- _✓_ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- _✓_ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes _✓_ No ____ | Depth (inches): | 1 |
| Water Table Present? | Yes _✓_ No ____ | Depth (inches): | 3 |
| Saturation Present? (includes capillary fringe) | Yes _✓_ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes _✓_ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-04; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 20 | Yes | FAC |
| 2. *Acer saccharinum* | 12 | Yes | FACW |
| 3. *Carya cordiformis* | 10 | Yes | FAC |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 42 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Lindera benzoin* | 55 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 55 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Lindera benzoin* | 15 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 15 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 82 | x 2 = | 164 |
| FAC species | 30 | x 3 = | 90 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 112 (A) | | 254 (B) |

Prevalence Index = B/A = 2.3

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-04; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 4 | 10YR 2/1 | 100 | | | | | Silt Loam | |
| 4 - 8 | 7.5YR 3/2 | 70 | 7.5YR 6/6 | 30 | C | M | Silty Clay Loam | |
| 8 - 14 | 7.5YR 6/4 | 90 | 7.5YR 5/6 | 10 | C | M | Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

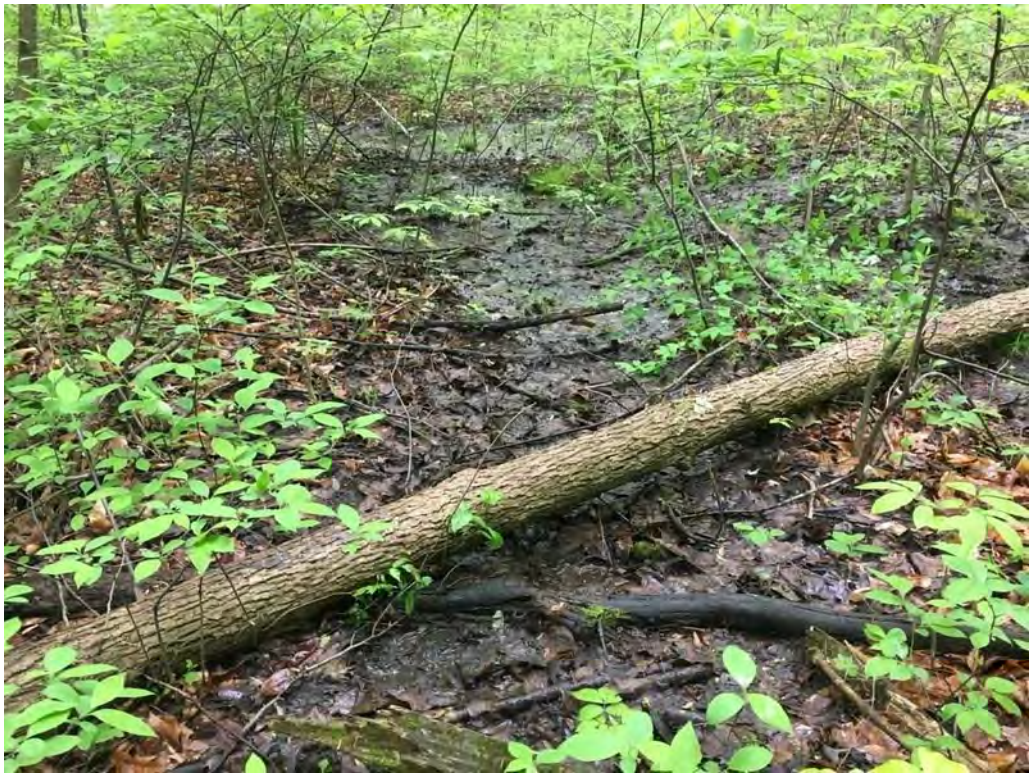
Type: None

Depth (inches):

**Hydric Soil Present?** Yes ✓ No ____

**Remarks:**

Hydrology Photos



Vegetation Photos

Soil Photos

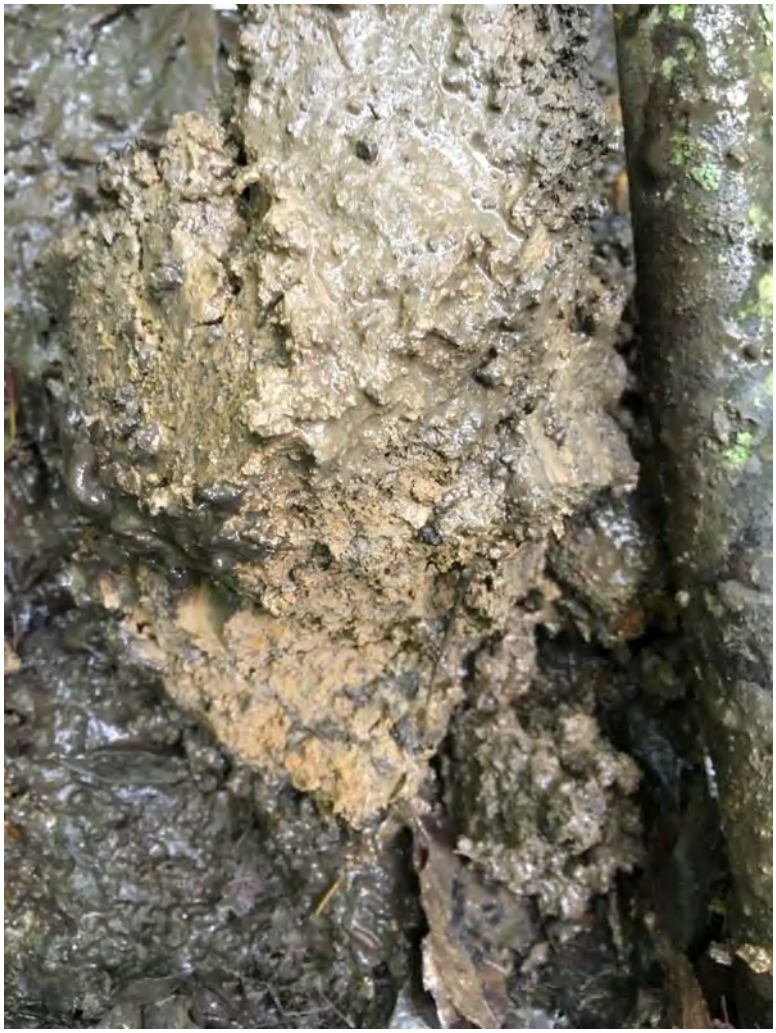


Photo of Sample Plot

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-June-07
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JJB-22; PFO-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Swamp **Local relief (concave, convex, none):** Concave **Slope (%):** 2-5
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0790059 **Long:** -78.0739155 **Datum:** WGS84
**Soil Map Unit Name:** Alden mucky silt loam **NWI classification:** PFO1/SS1B
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-22 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO. Wet spring.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | | |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 8 | **Wetland Hydrology Present?** Yes ✓ No ____ |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-22; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Thuja occidentalis* | 75 | Yes | FACW |
| 2. *Fraxinus pennsylvanica* | 5 | No | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 80 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Fraxinus pennsylvanica* | 20 | Yes | FACW |
| 2. *Cornus alternifolia* | 5 | No | FACU |
| 3. *Prunus virginiana* | 1 | No | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 26 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Symplocarpus foetidus* | 60 | Yes | OBL |
| 2. *Carex intumescens* | 10 | No | FACW |
| 3. *Equisetum arvense* | 10 | No | FAC |
| 4. *Cornus alternifolia* | 7 | No | FACU |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 87 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 60 | x 1 = | 60 |
| FACW species | 110 | x 2 = | 220 |
| FAC species | 10 | x 3 = | 30 |
| FACU species | 13 | x 4 = | 52 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 193 (A) | | 362 (B) |

Prevalence Index = B/A = 1.9

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-22; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 25 | 10YR 2/2 | 100 | | | | | Org matter Mucky Peat | |
| 25 - 30 | 2.5Y 4/1 | 100 | | | | | Clay | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 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)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

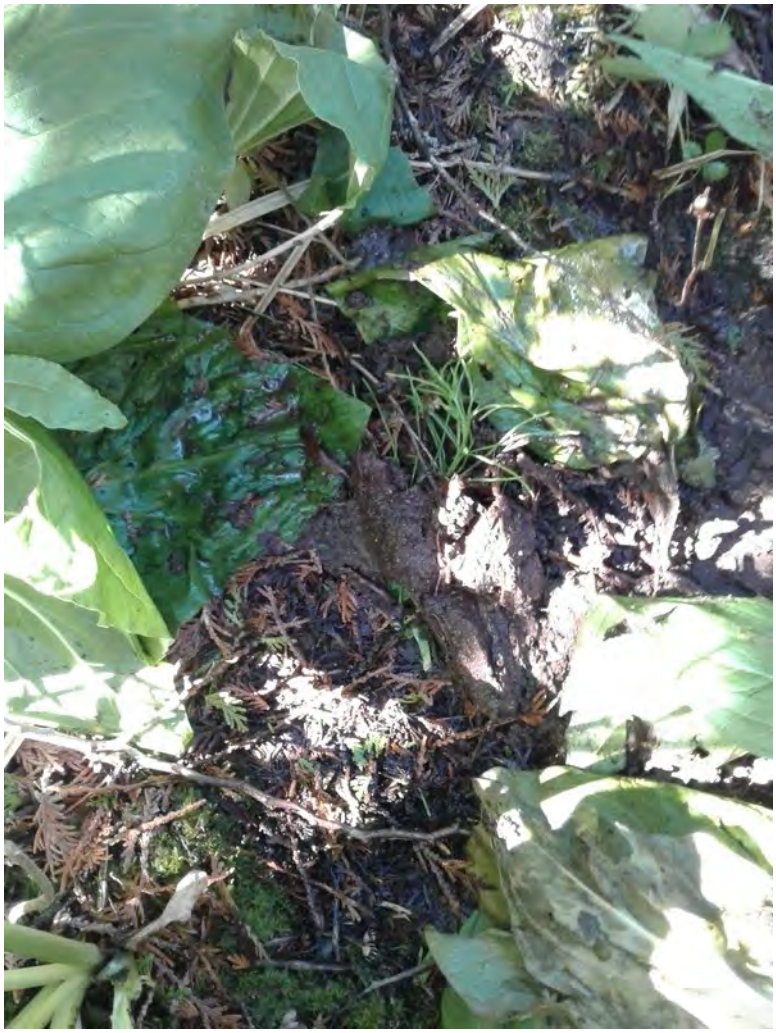
Type: Clay

Depth (inches): 30

**Hydric Soil Present?** Yes ✓ No ____

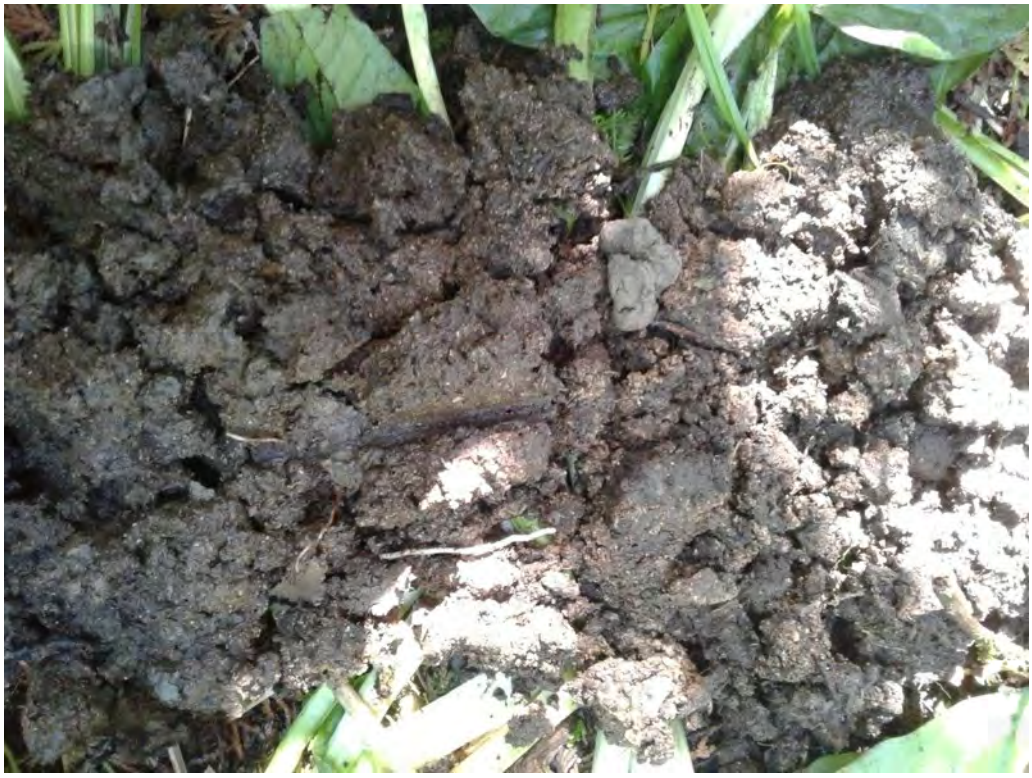
**Remarks:**

Hydrology Photos



Vegetation Photos

Soil Photos



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-07
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-23; PEM-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Swale **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0734769721 **Long:** -78.0763792154 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-23 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PEM. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 3 |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 0 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**
Water flowing from PUB

**Remarks:**

Cool, clear water flowing through vegetated swale

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-23; PEM-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Nasturtium officinale* | 90 | Yes | OBL |
| 2. *Cornus alba* | 15 | No | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 105 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 1 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 90 | x 1 = | 90 |
| FACW species | 15 | x 2 = | 30 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 105 (A) | | 120 (B) |
| Prevalence Index = B/A = | 1.1 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-23; PEM-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
_✓_ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

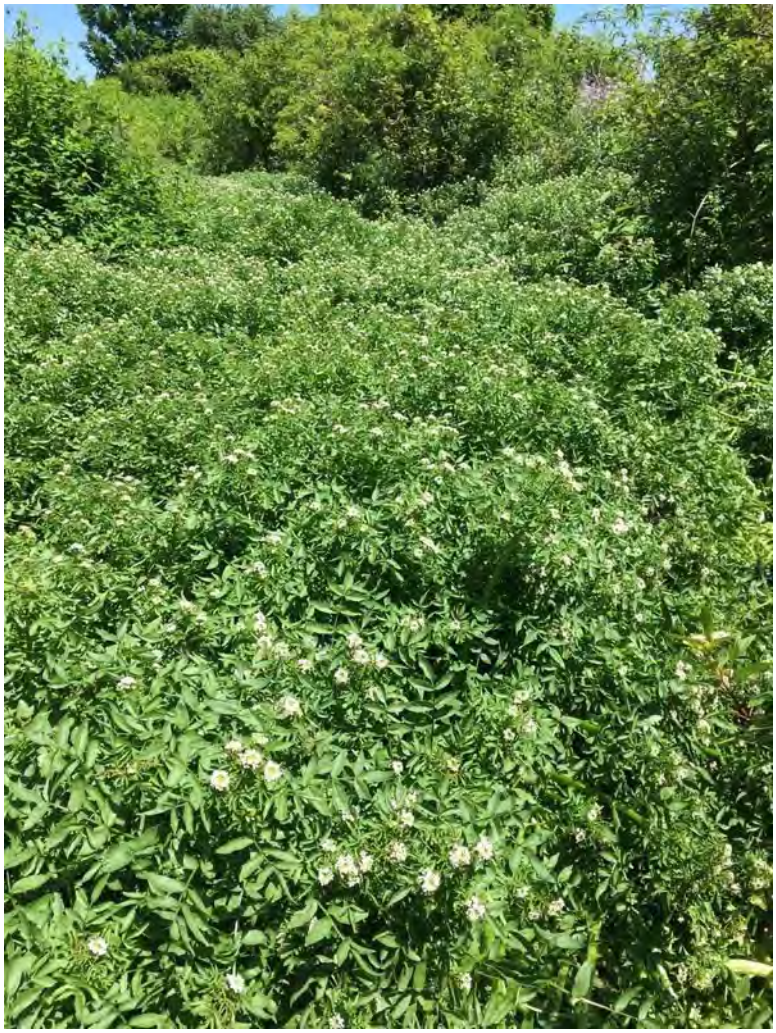
**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Due to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric.

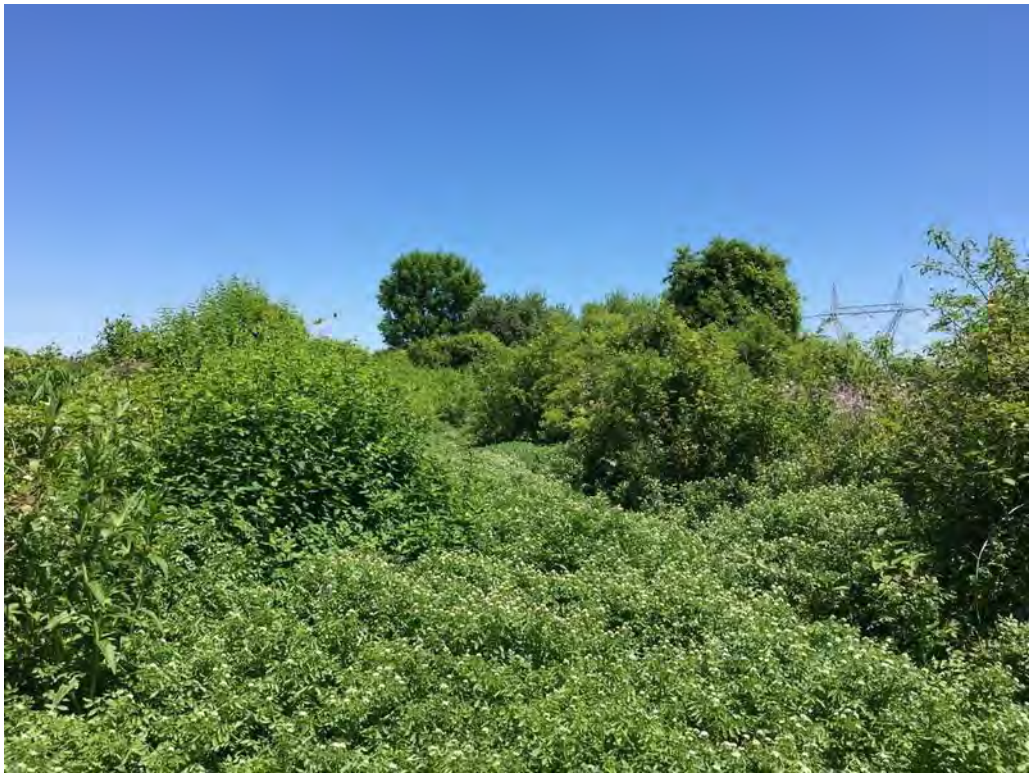
Hydrology Photos

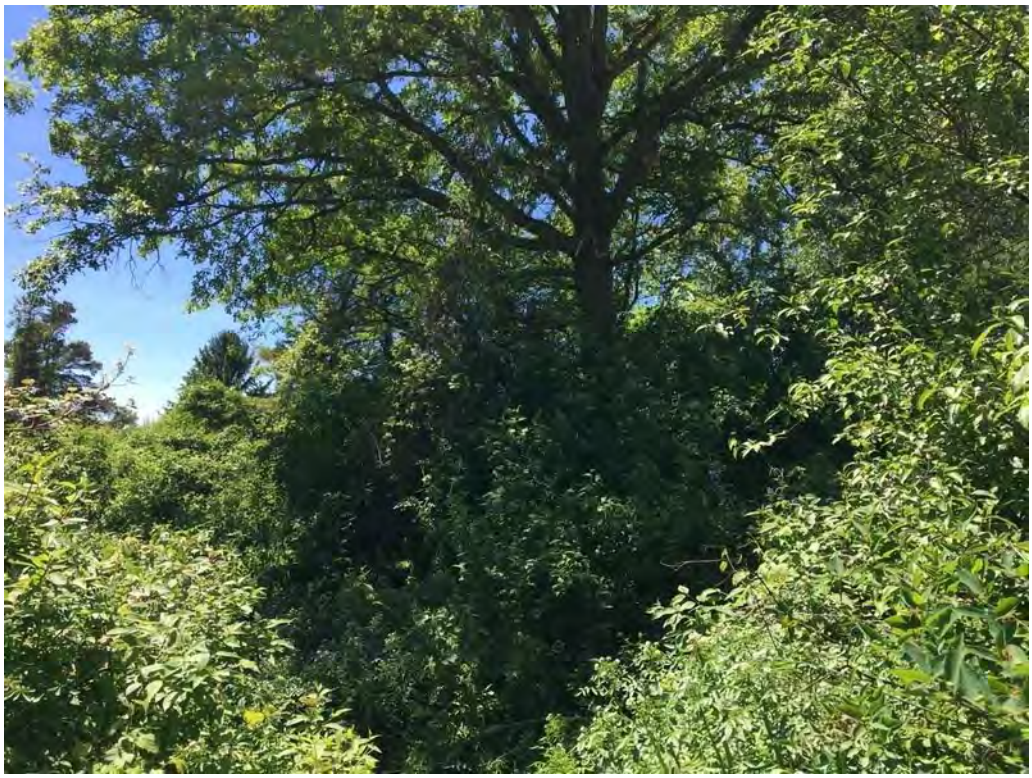
Vegetation Photos



Soil Photos

Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-04
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-13; UPL-2
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0606228207 **Long:** -78.0520077423 **Datum:** WGS84
**Soil Map Unit Name:** Lima silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-13; UPL-2

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Dactylis glomerata* | 85 | Yes | FACU |
| 2. *Medicago lupulina* | 70 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 155 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 155 | x 4 = | 620 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 155 | (A) | 620 (B) |
| Prevalence Index = B/A = | 4 | | |

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

SOIL

Sampling Point: W-JJB-13; UPL-2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 10 | 10YR 3/3 | 100 | | | | | Gravelly Loam | |
| 10 - 14 | 10YR 3/3 | 70 | 10YR 5/8 | 10 | C | M | Silt Loam | |
| 10 - 14 | 10YR 5/2 | 20 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

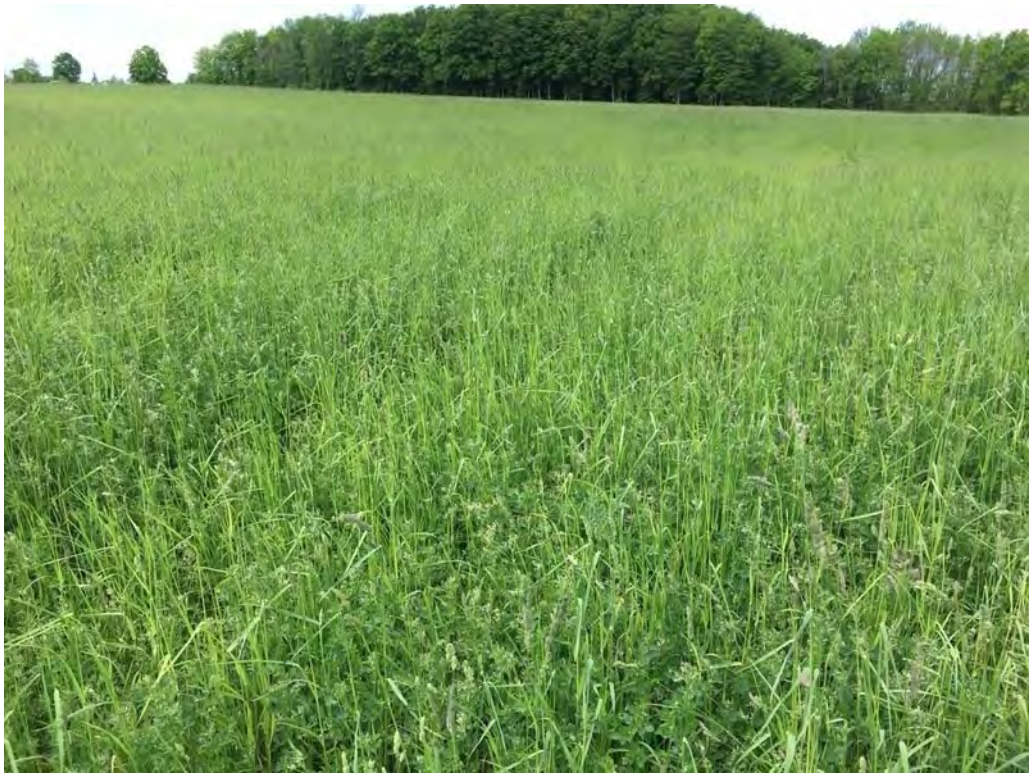
**Restrictive Layer (if observed):**

Type: Rocks
Depth (inches): 14

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos



Soil Photos

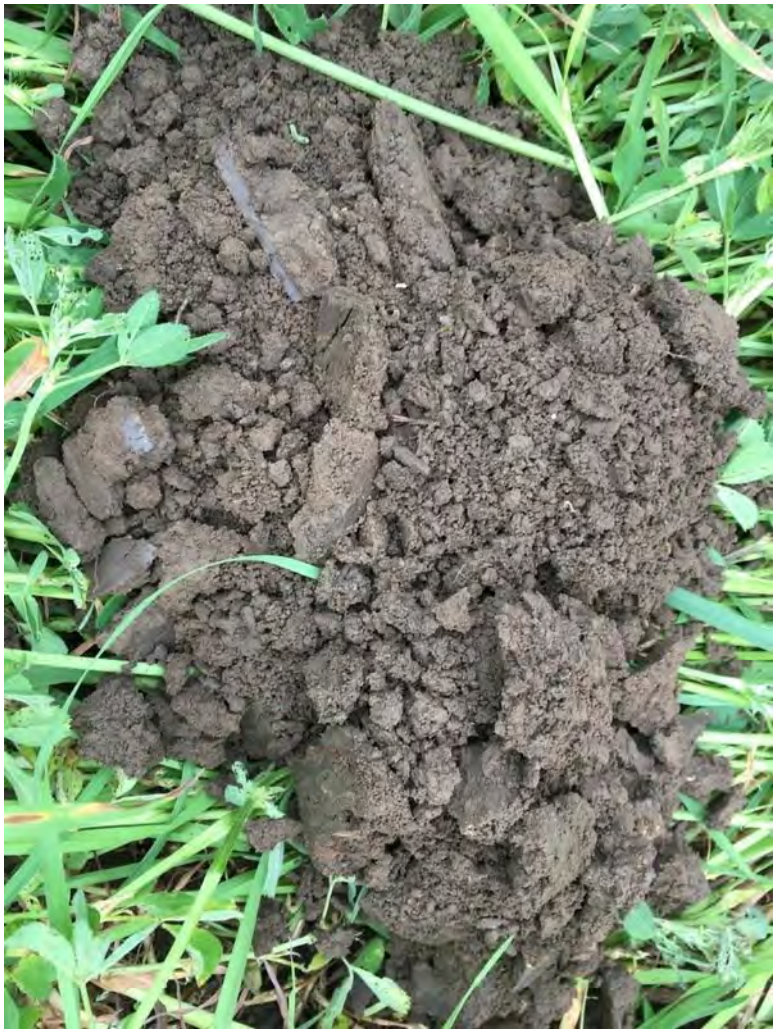
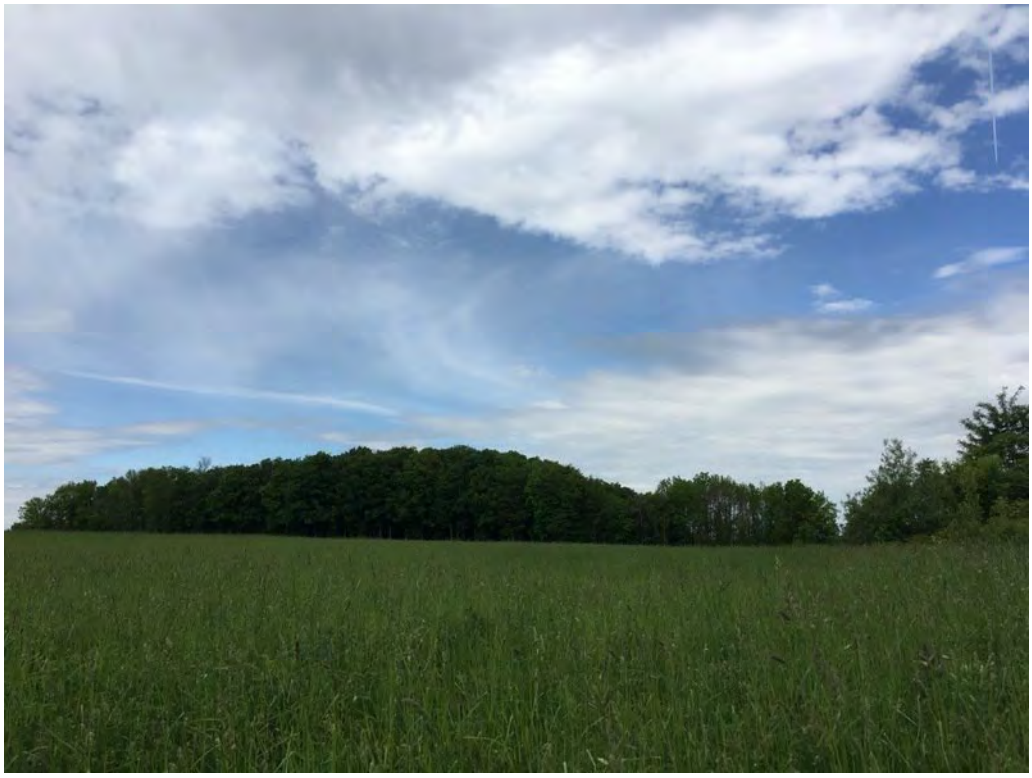


Photo of Sample Plot



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-29
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-07; UPL-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.086512 **Long:** -78.0924163 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ✓, Soil ✓, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes** ____ **No** ✓ |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-07; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Zea mays* | 20 | Yes | UPL |
| 2. *Dactylis glomerata* | 15 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 35 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 15 | x 4 = | 60 |
| UPL species | 20 | x 5 = | 100 |
| Column Totals | 35 | (A) | 160 (B) |
| Prevalence Index = B/A = | 4.6 | | |

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC− or drier).

SOIL

Sampling Point: W-JDV-07; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 15 | 10YR 5/3 | 100 | | | | | Silty Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

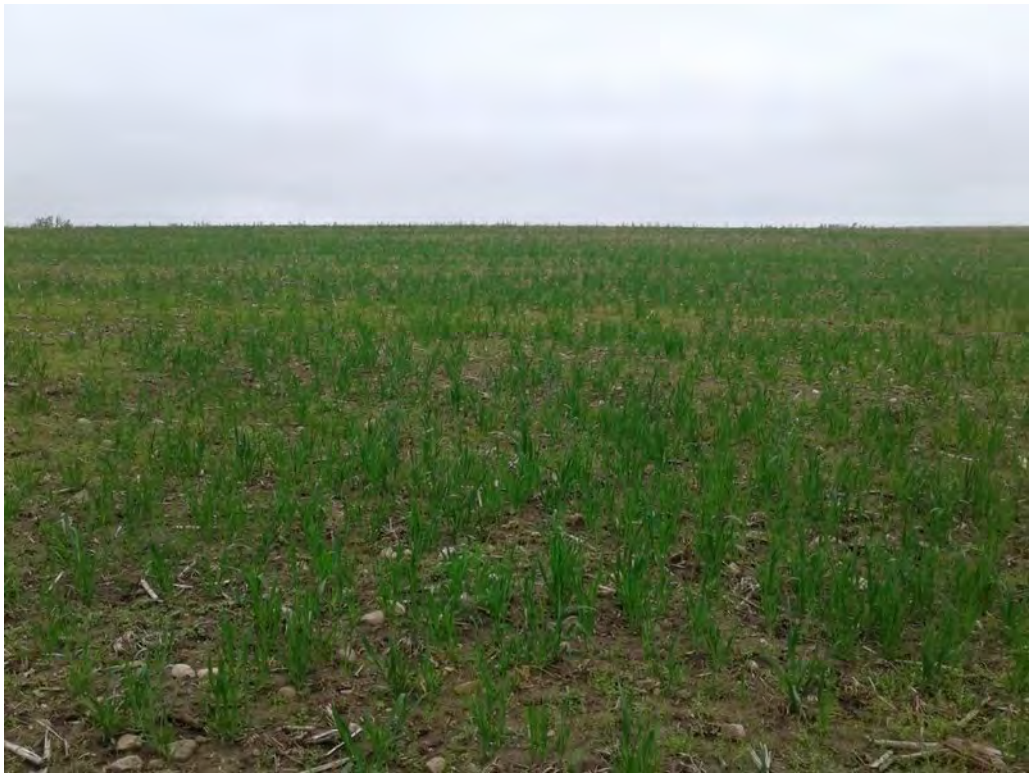
Depth (inches):

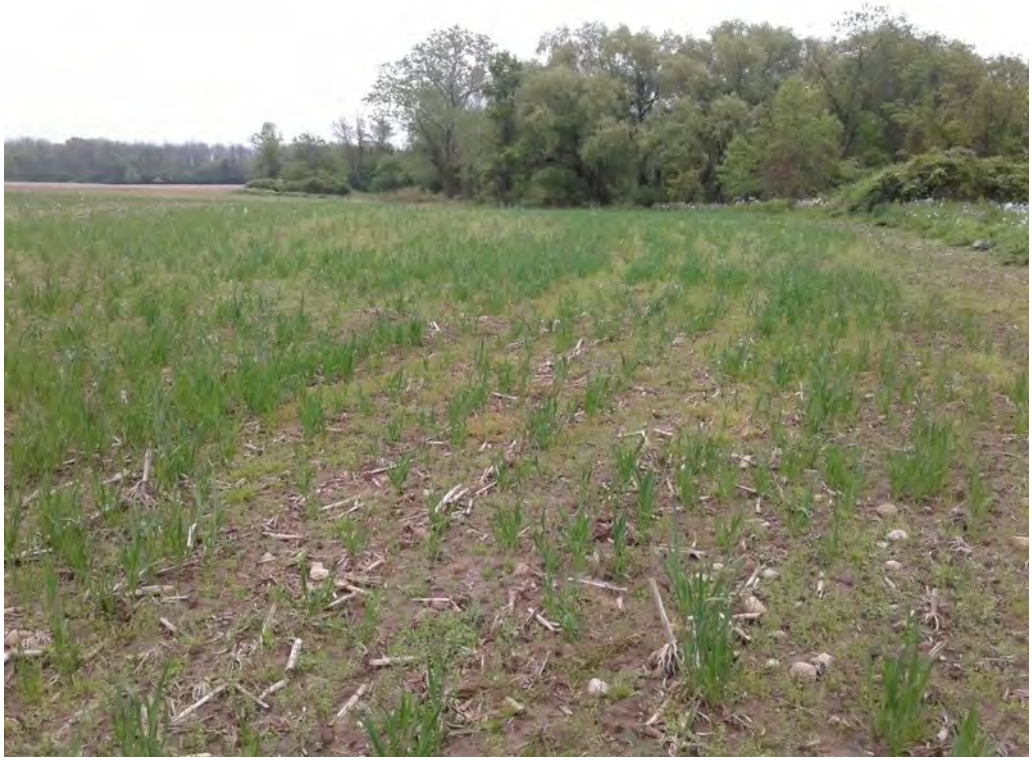
**Hydric Soil Present?** Yes ____ No ✓

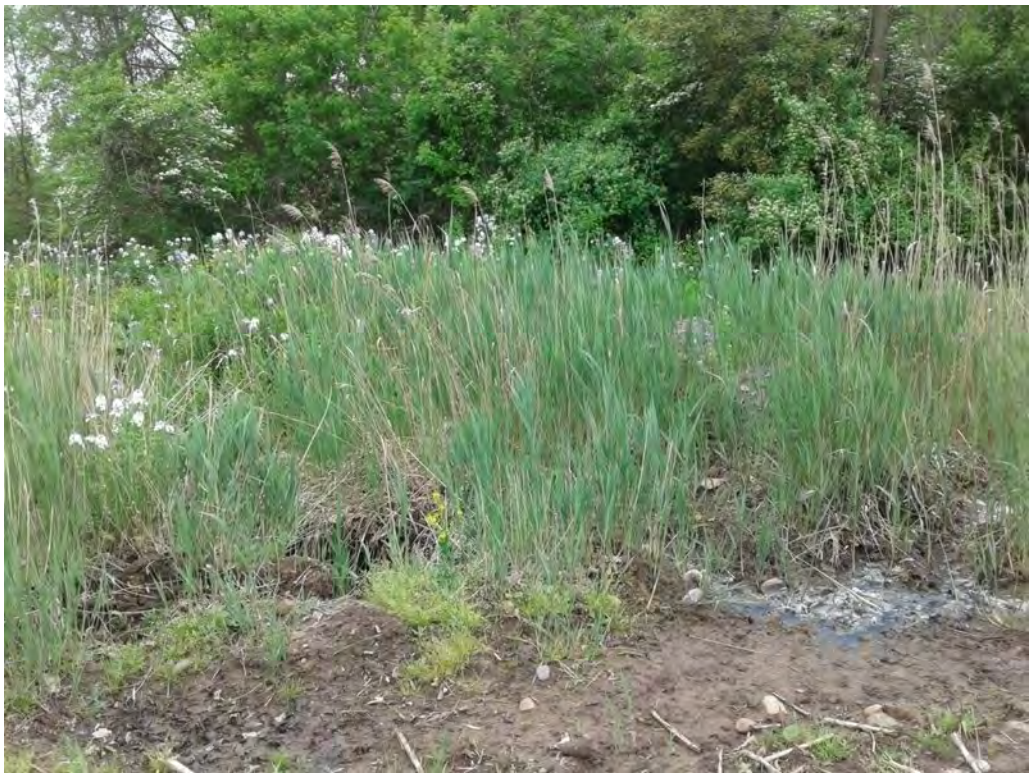
**Remarks:**

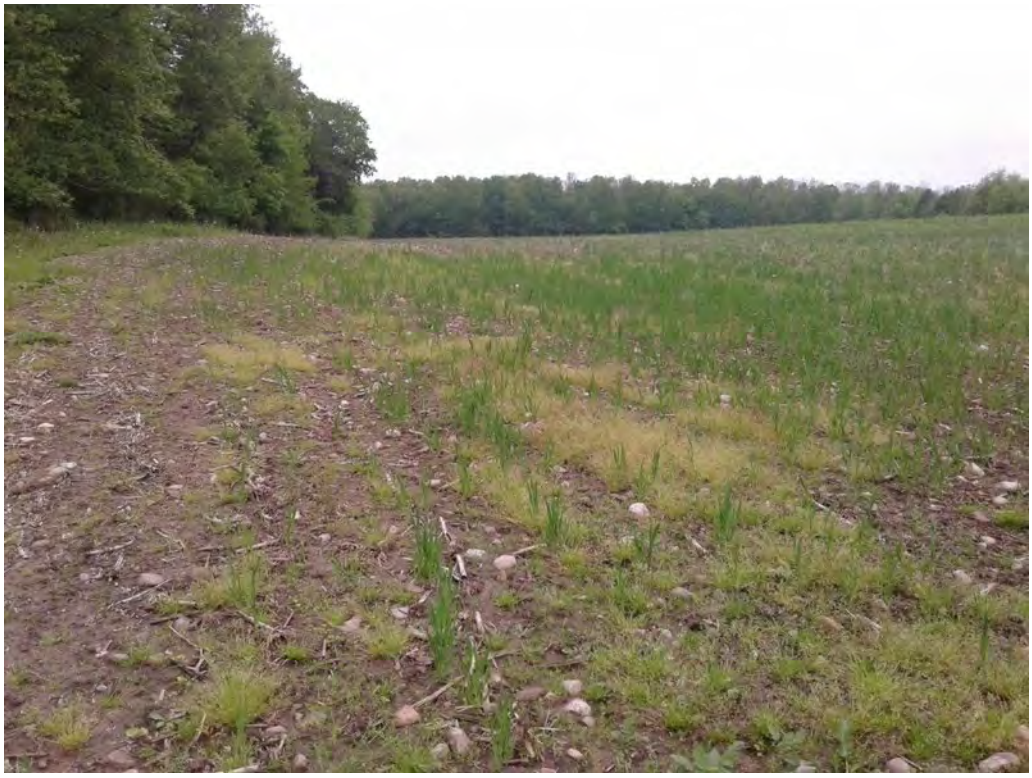
No positive indication of hydric soils was observed.

Photo of Sample Plot









## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-03
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-11; PFO-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Flat **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0740671419 **Long:** -78.0683164951 **Datum:** WGS84
**Soil Map Unit Name:** Wayland silt loam **NWI classification:** PFO1C
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-11 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ✓ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | | |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 8 | **Wetland Hydrology Present?** Yes ✓ No ____ |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-11; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 35 | Yes | OBL |
| 2. *Fraxinus pennsylvanica* | 25 | Yes | FACW |
| 3. *Acer saccharinum* | 12 | No | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 72 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Fraxinus pennsylvanica* | 10 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 10 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Persicaria virginiana* | 60 | Yes | FAC |
| 2. *Lysimachia nummularia* | 50 | Yes | FACW |
| 3. *Toxicodendron radicans* | 30 | No | FAC |
| 4. *Cicuta maculata* | 15 | No | OBL |
| 5. *Impatiens capensis* | 5 | No | FACW |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 160 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 5 | (A) |
| Total Number of Dominant Species Across All Strata: | 5 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 50 | x 1 = | 50 |
| FACW species | 102 | x 2 = | 204 |
| FAC species | 90 | x 3 = | 270 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 242 (A) | | 524 (B) |
| Prevalence Index = B/A = | 2.2 | | |

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-11; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 18 | 10YR 3/1 | 100 | | | | | Silt Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
_✓_ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

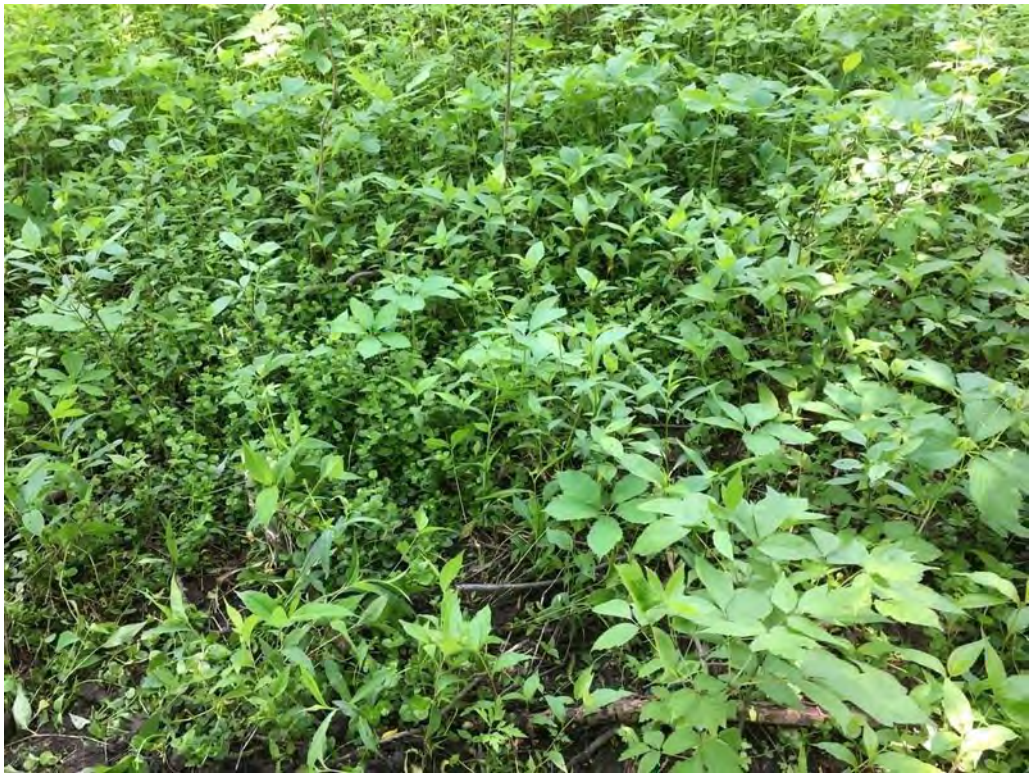
Depth (inches):

**Hydric Soil Present?** Yes _✓_ No ____

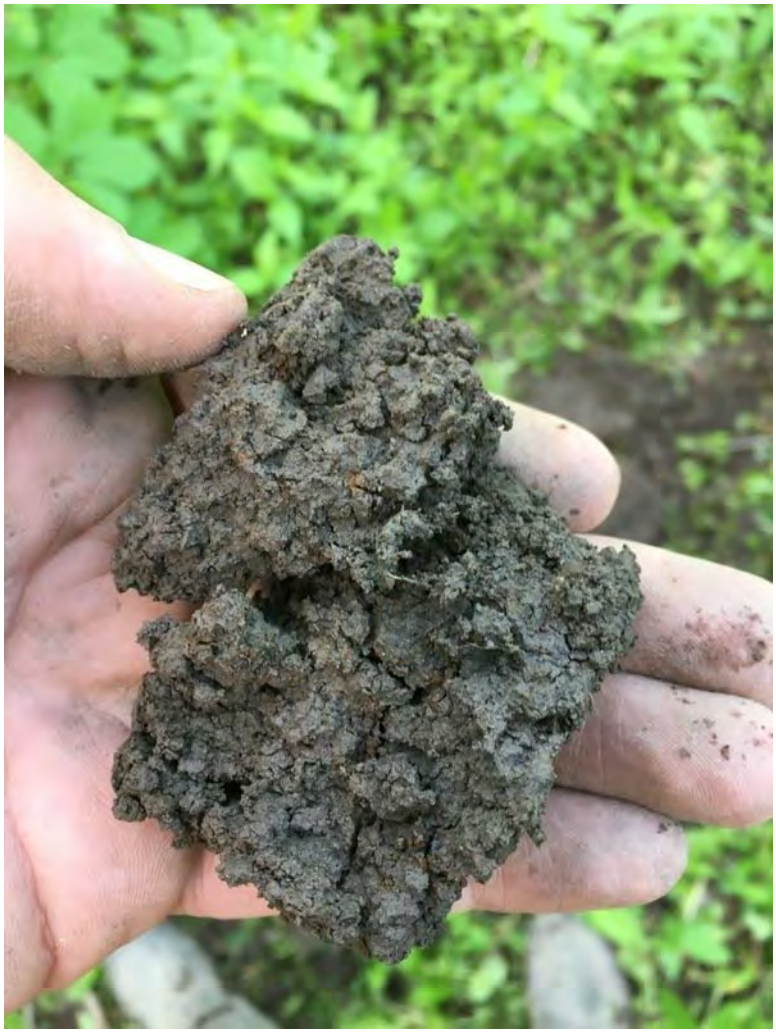
**Remarks:**

Soils were assumed to be hydric due to the presence of inundation, FACW and OBL vegetation species, and a definitive wetland boundary.

Vegetation Photos



Soil Photos



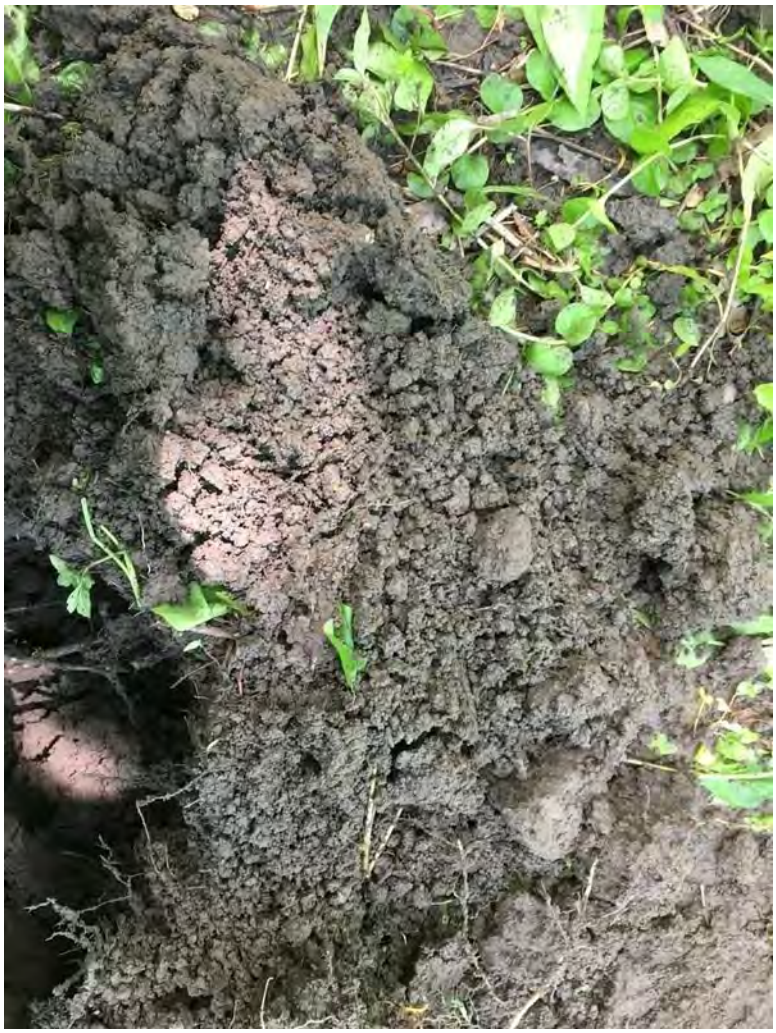
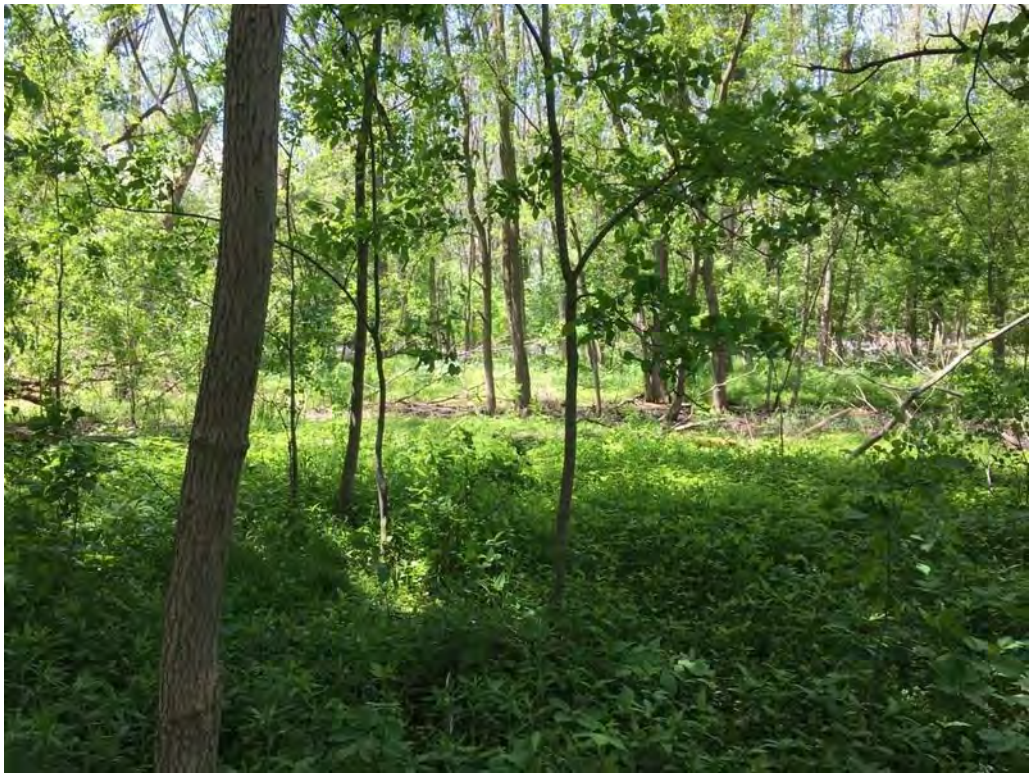
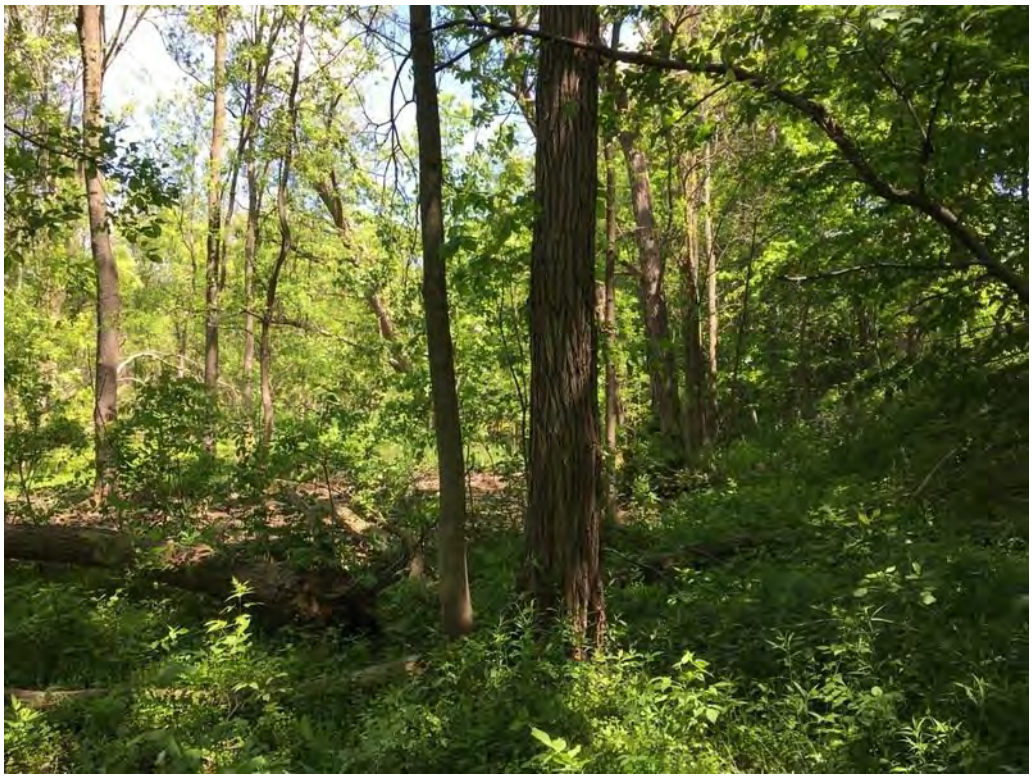


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-05
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-18; UPL-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Hillslope **Local relief (concave, convex, none):** Flat **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0630198354 **Long:** -78.1008445659 **Datum:** WGS84
**Soil Map Unit Name:** Ovid silt loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-18; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer saccharum* | 45 | Yes | FACU |
| 2. *Tilia americana* | 20 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 65 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Fraxinus americana* | 5 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 5 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Toxicodendron radicans* | 35 | Yes | FAC |
| 2. *Parthenocissus quinquefolia* | 15 | Yes | FACU |
| 3. *Acer saccharum* | 8 | No | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 58 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. *Vitis riparia* | 7 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 7 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 2 | (A) |
| Total Number of Dominant Species Across All Strata: | 6 | (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 | 42 | x 3 = | 126 |
| FACU species | 93 | x 4 = | 372 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 135 | (A) | 498 (B) |
| Prevalence Index = B/A = | 3.7 | | |

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

SOIL

Sampling Point: W-JJB-18; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 8 | 10YR 3/2 | 100 | | | | | Silt Loam | |
| 8 - 14 | 10YR 5/3 | 97 | 10YR 5/8 | 3 | C | M | Silty Clay Loam | |
| | | | | | | | | |
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| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rocks
Depth (inches): 14

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos

Soil Photos

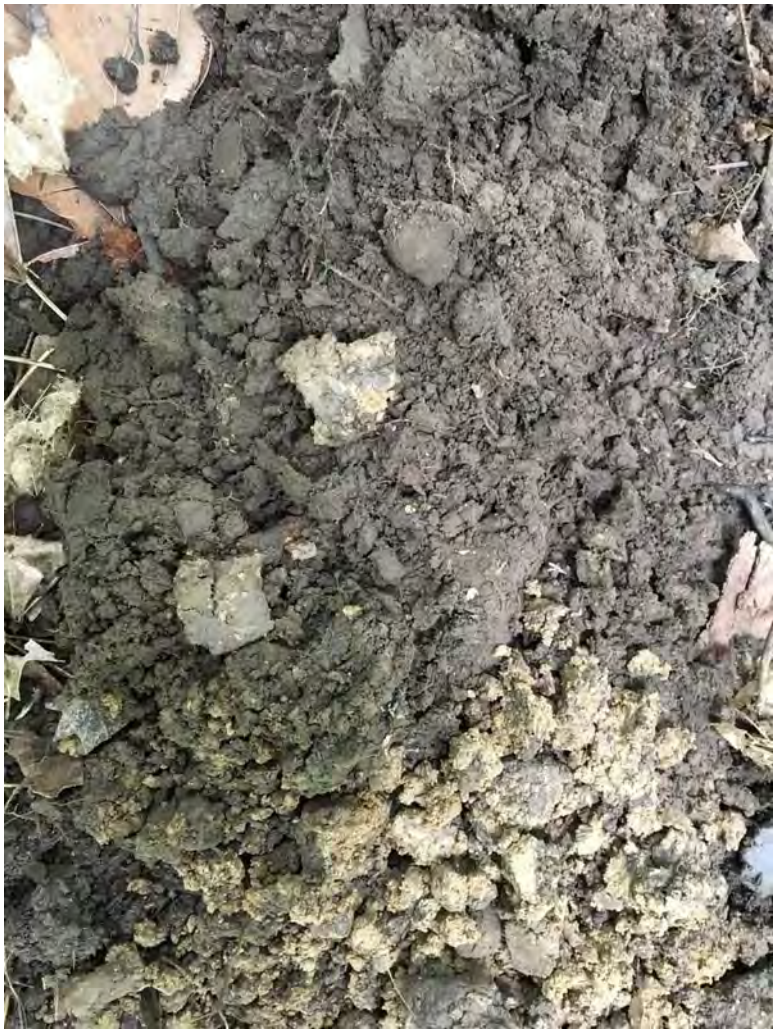

Photo of Sample Plot

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-28
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-02; PEM-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Flood Plain **Local relief (concave, convex, none):** Concave **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0805102 **Long:** -78.0730181 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JDV-02 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PEM.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 5 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-02; PEM-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Salix nigra* | 8 | Yes | OBL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 8 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Symphyotrichum puniceum* | 45 | Yes | OBL |
| 2. *Typha angustifolia* | 25 | Yes | OBL |
| 3. *Alliaria petiolata* | 15 | No | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 85 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 3 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 78 | x 1 = | 78 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 15 | x 4 = | 60 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 93 | (A) | 138 (B) |
| Prevalence Index = B/A = | 1.5 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JDV-02; PEM-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 14 | 2.5Y 2.5/1 | 97 | 7.5YR 4/3 | 3 | | | Silty Clay | |
| | | | | | | | | |
| | | | | | | | | |
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[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

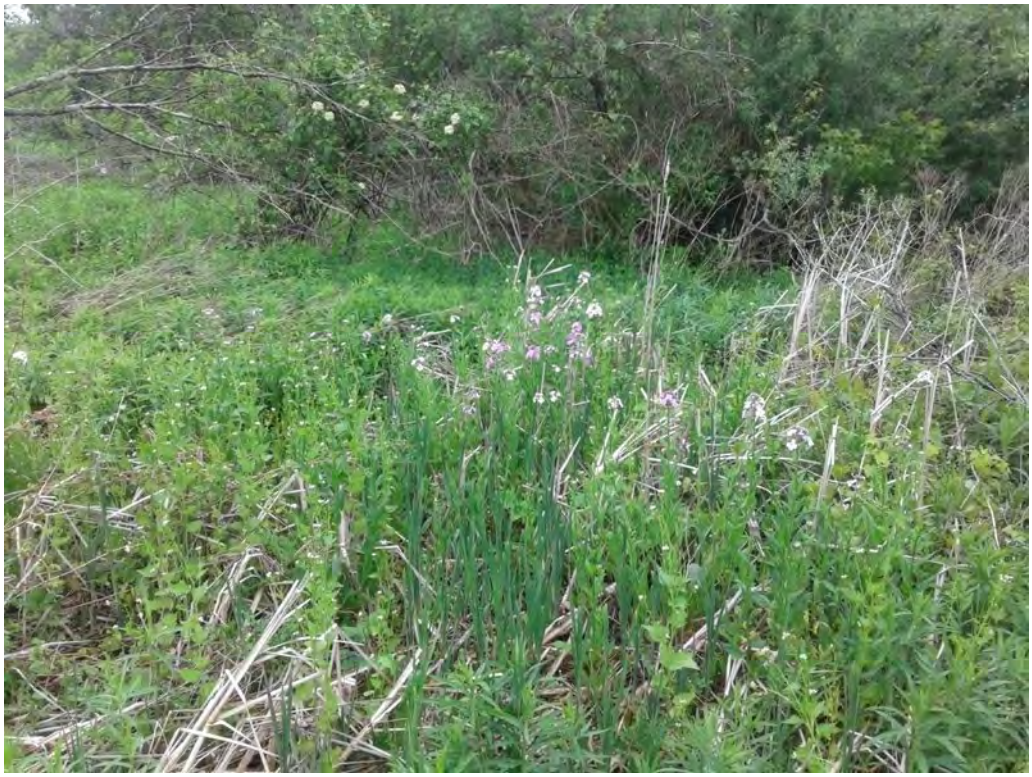
Depth (inches):

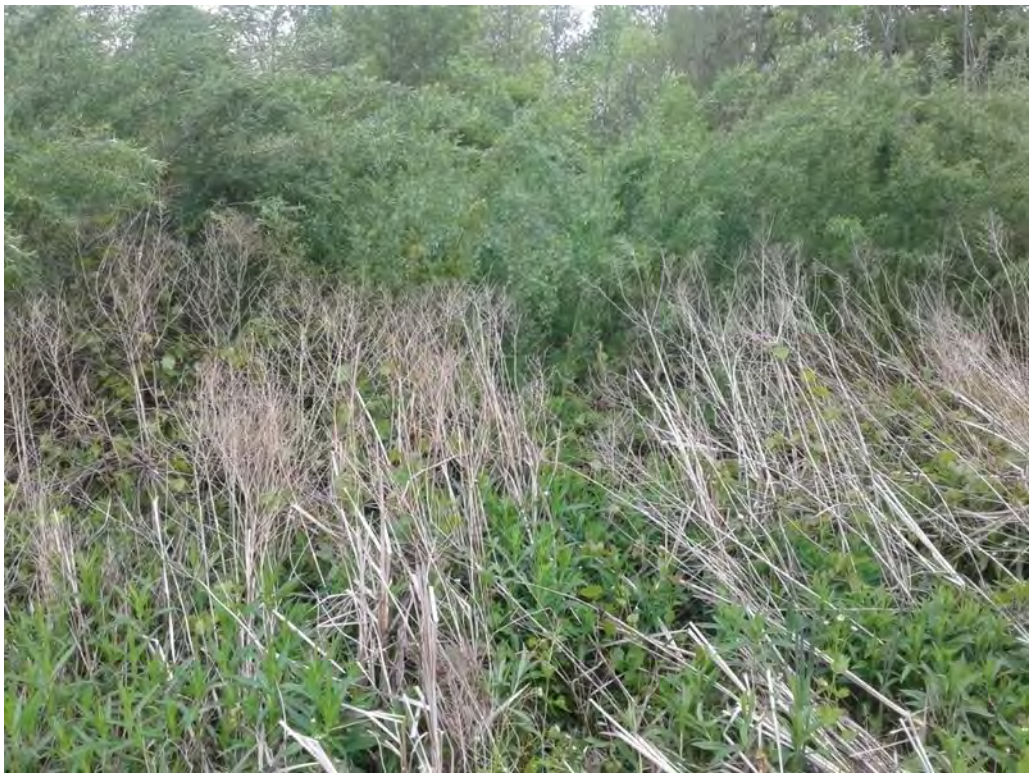
**Hydric Soil Present?** Yes ✓ No ____

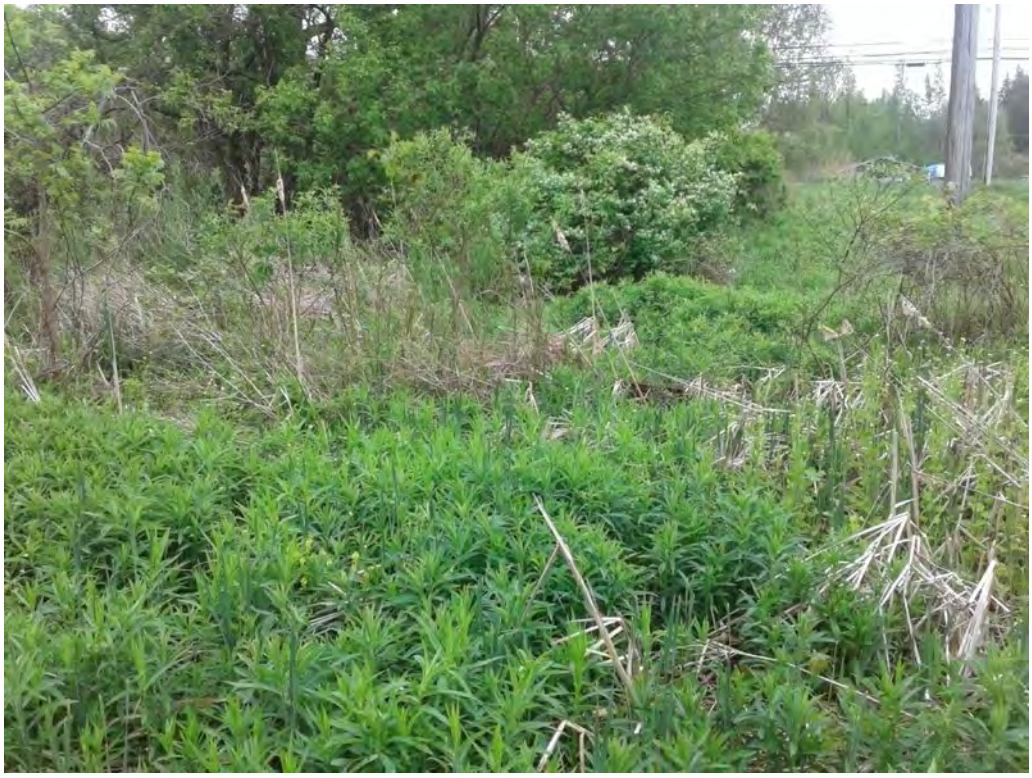
**Remarks:**

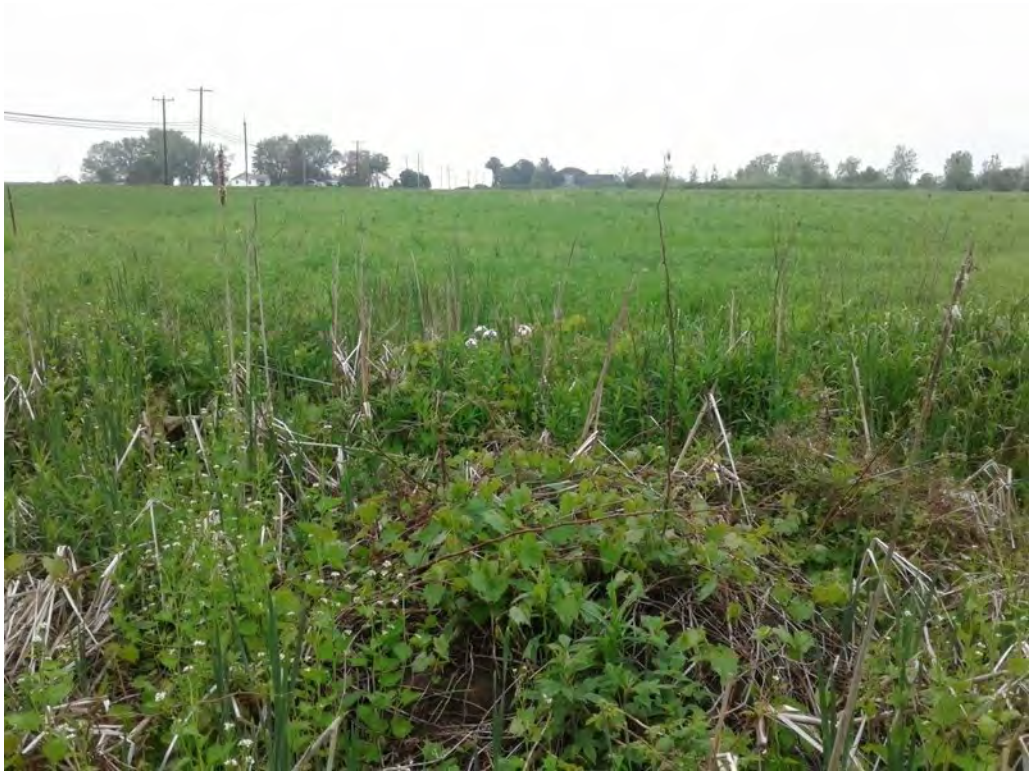
Vegetation Photos

Photo of Sample Plot









## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-04
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-15; PSS-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0540911388 **Long:** -78.0482846685 **Datum:** WGS84
**Soil Map Unit Name:** Ontario loam, 3 to 8 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-15 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PSS.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ✓ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 3 |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 0 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-15; PSS-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 25 | Yes | OBL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 25 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Salix nigra* | 50 | Yes | OBL |
| 2. *Cornus amomum* | 40 | Yes | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 90 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Cornus amomum* | 5 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 5 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 4 | (A) |
| Total Number of Dominant Species Across All Strata: | 4 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 75 | x 1 = | 75 |
| FACW species | 45 | x 2 = | 90 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 120 | (A) | 165 (B) |

Prevalence Index = B/A = 1.4

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-15; PSS-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| - | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

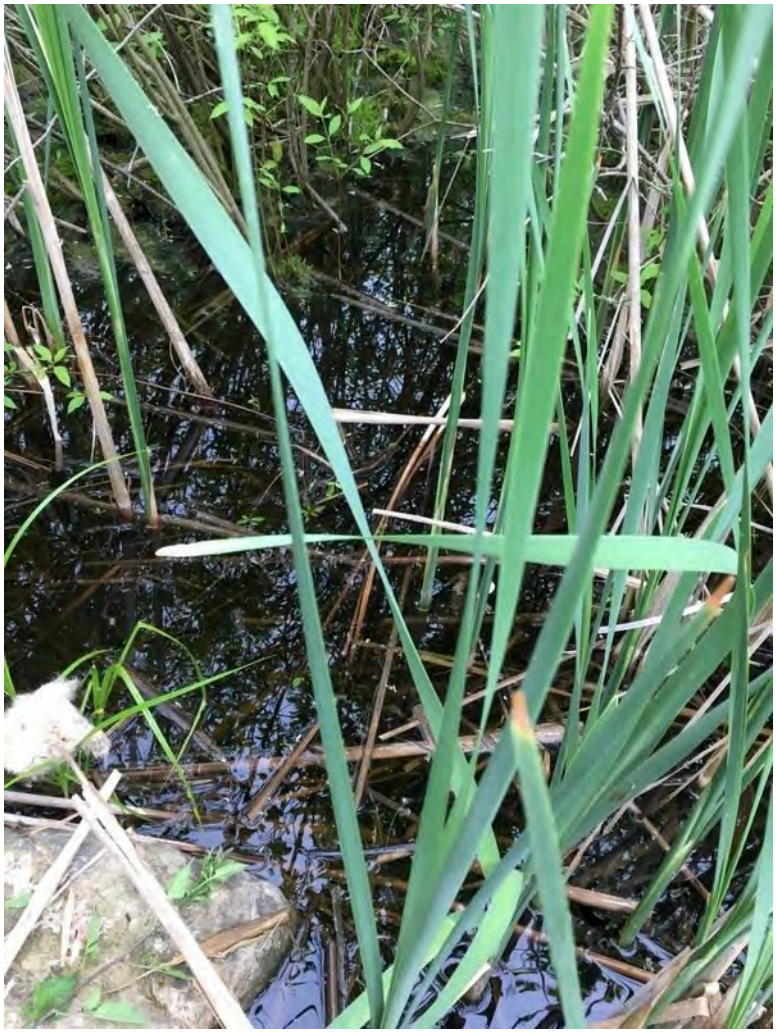
Depth (inches):

**Hydric Soil Present?** Yes ____ No ✓

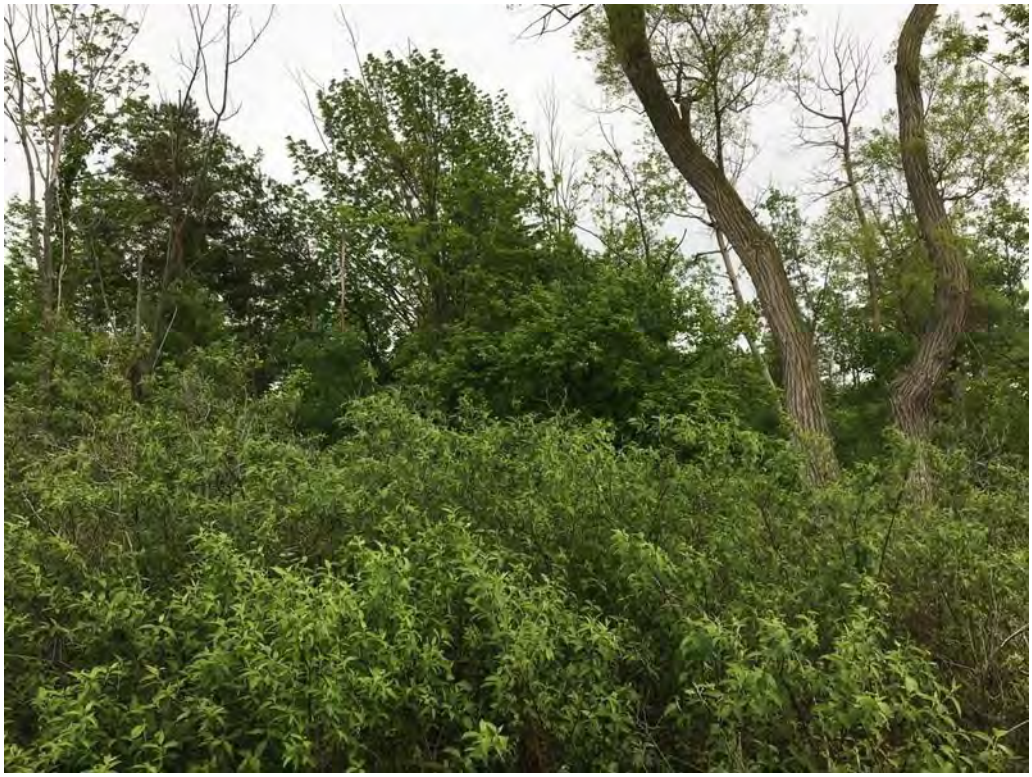
**Remarks:**

Soils were assumed to be hydric due to the presence of inundation, FACW and OBL vegetation species, and a definitive wetland boundary.

Hydrology Photos



Vegetation Photos



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-28
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-01; PFO-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Plain **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0849531 **Long:** -78.074656 **Datum:** WGS84
**Soil Map Unit Name:** Niagara silt loam, 0 to 2 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JDV-01 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ✓ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ✓ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ✓ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | | |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 8 | **Wetland Hydrology Present?** Yes ✓ No ____ |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 2 | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

A positive indication of wetland hydrology was observed (primary and secondary indicators were present).

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-01; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 40 | Yes | FAC |
| 2. *Ulmus americana* | 30 | Yes | FACW |
| 3. *Carya ovata* | 15 | No | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 85 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. *Glyceria striata* | 15 | Yes | OBL |
| 2. *Dryopteris expansa* | 5 | No | FAC |
| 3. *Ranunculaceae* | 5 | No | NI |
| 4. *Juncus torreyi* | 3 | No | FACW |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 28 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 15 | x 1 = | 15 |
| FACW species | 33 | x 2 = | 66 |
| FAC species | 45 | x 3 = | 135 |
| FACU species | 15 | x 4 = | 60 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 108 (A) | | 276 (B) |

Prevalence Index = B/A = 2.6

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JDV-01; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 6 | 10YR 3/1 | 100 | | | | | Loam | |
| 6 - 16 | 10YR 6/2 | 95 | 10YR 5/3 | 5 | | | Clay | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

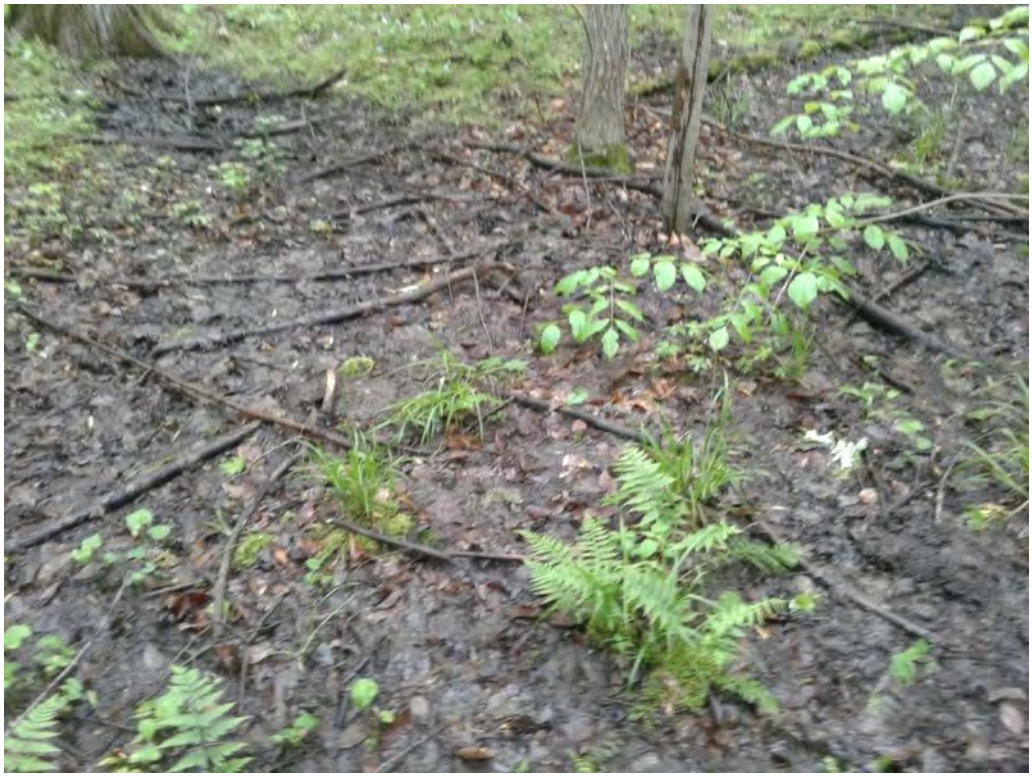
Type: None

Depth (inches):

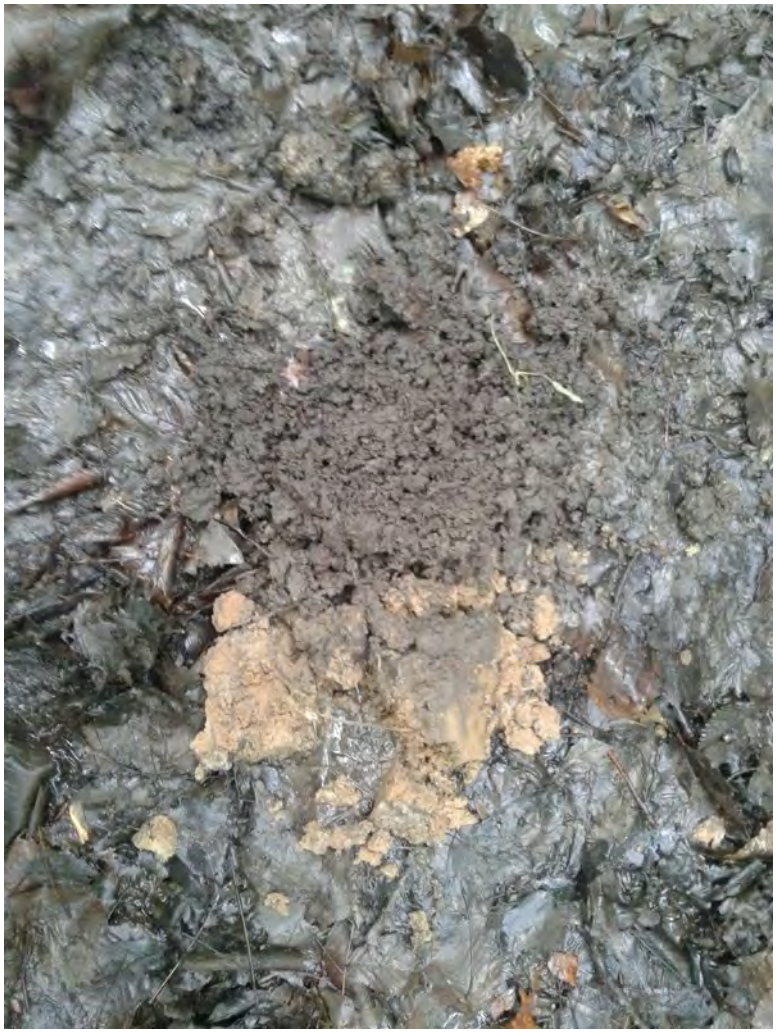
**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

Vegetation Photos



Soil Photos



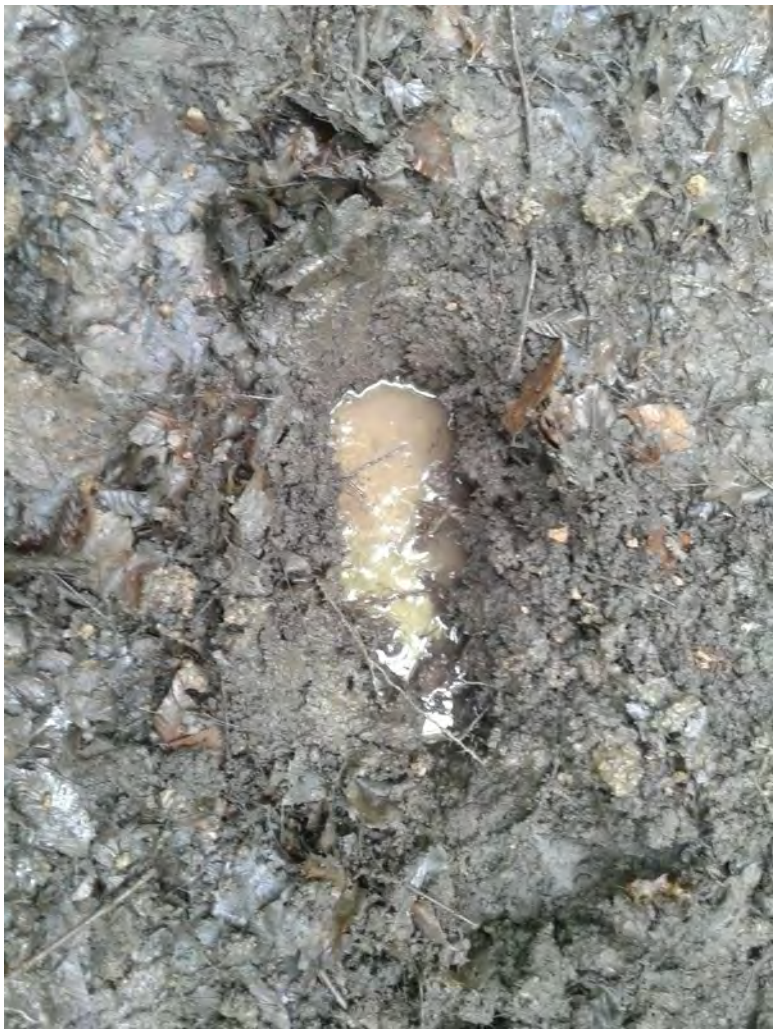
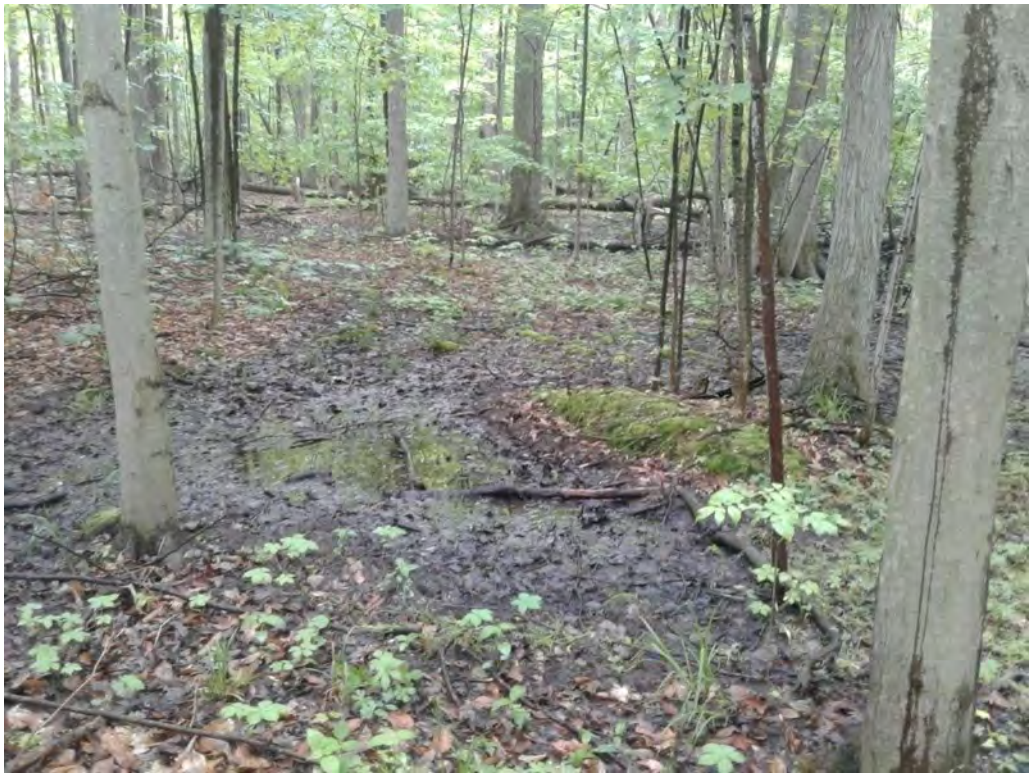
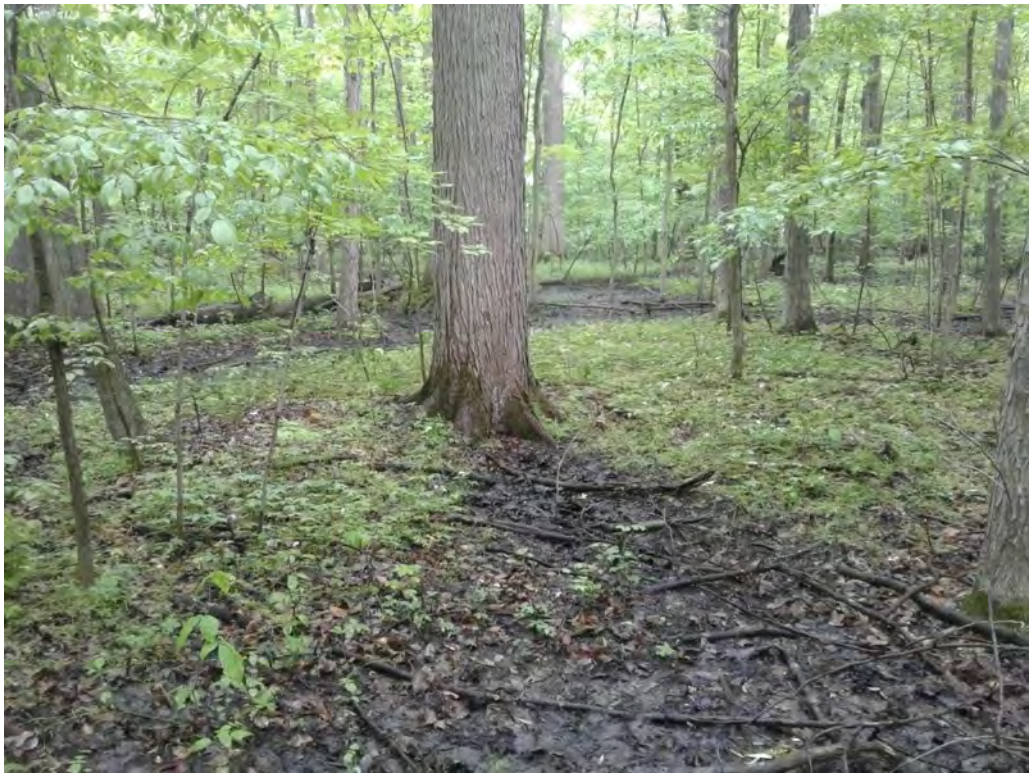
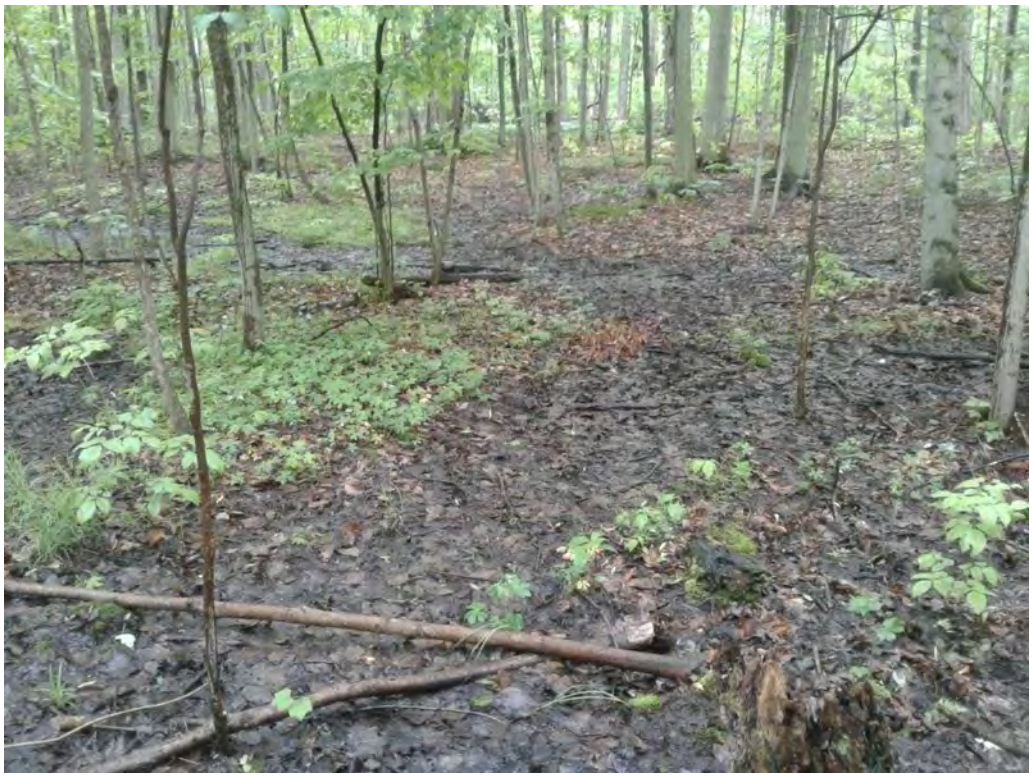


Photo of Sample Plot







## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-04
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-14; UPL-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0555667729 **Long:** -78.0454054848 **Datum:** WGS84
**Soil Map Unit Name:** Lyons silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-14; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 0 (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-14; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 12 | 10YR 3/3 | 100 | | | | | Silt Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rocks
Depth (inches): 12

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos

Soil Photos

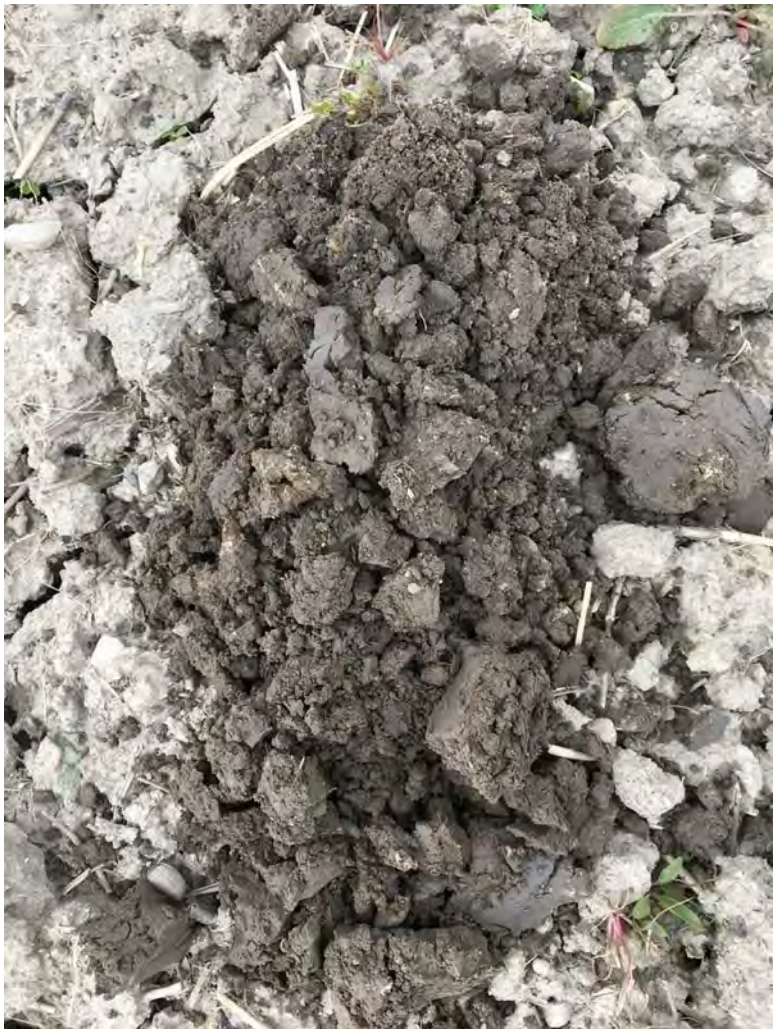
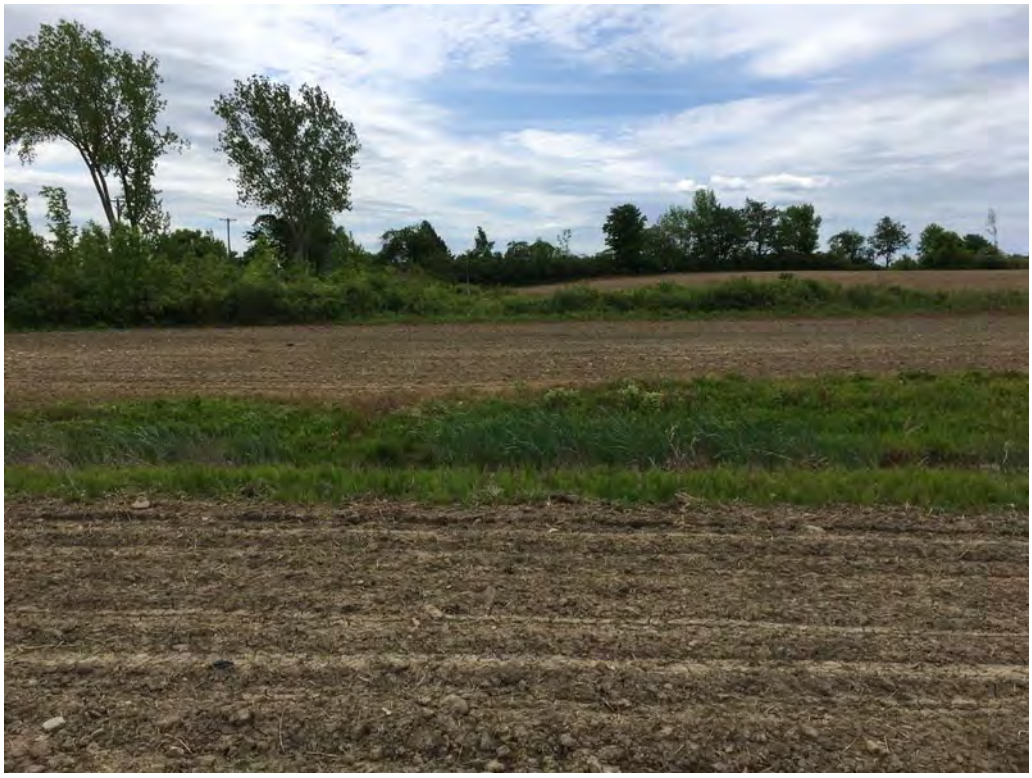
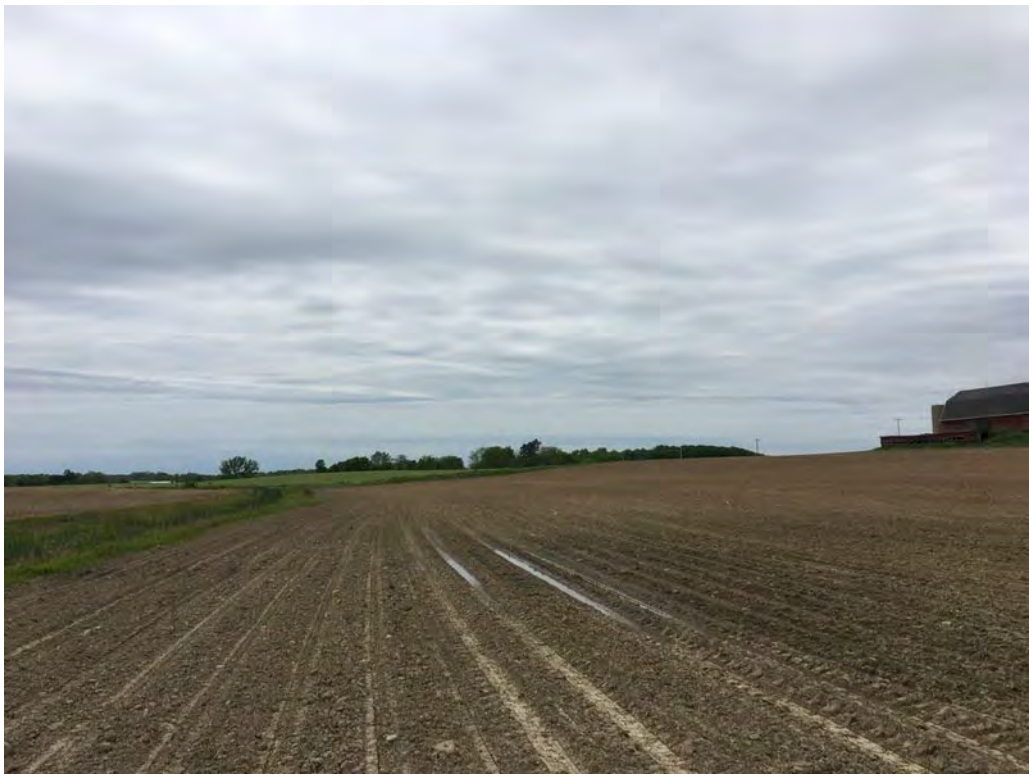


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-03
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-12; UPL-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0583671667 **Long:** -78.0543682539 **Datum:** WGS84
**Soil Map Unit Name:** Lima silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-12; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Dactylis glomerata* | 85 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 85 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 1 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 0 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 85 | x 4 = | 340 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 85 | (A) | 340 (B) |

Prevalence Index = B/A = 4

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

SOIL

Sampling Point: W-JJB-12; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 10 | 10YR 4/3 | 100 | | | | | Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

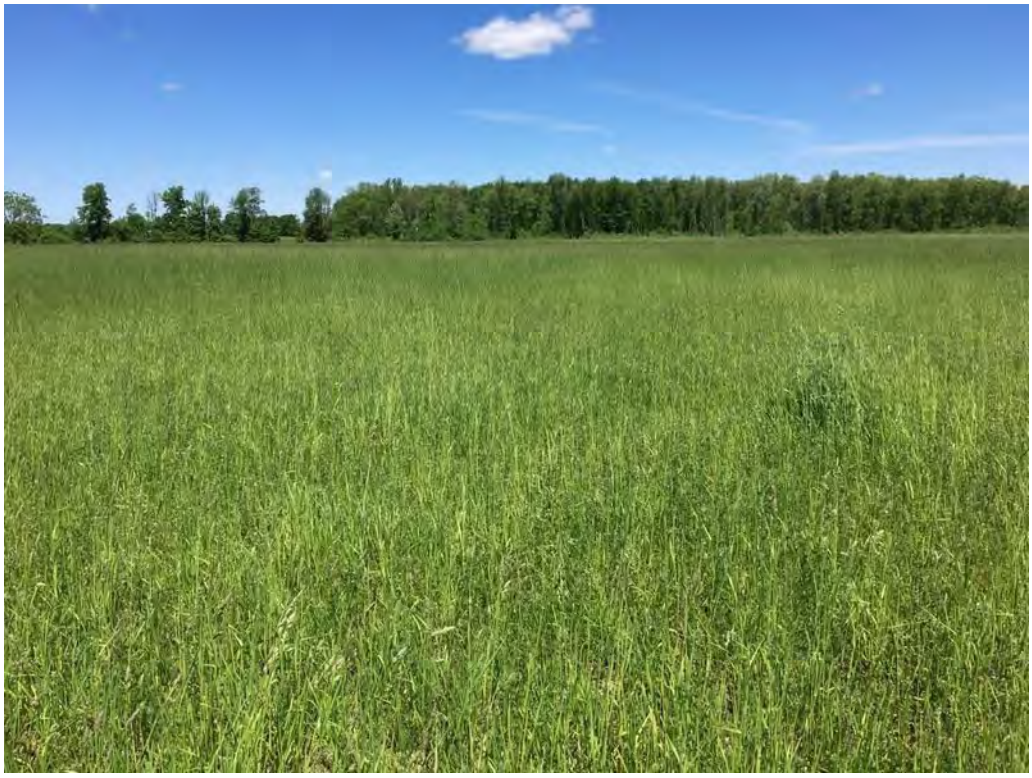
**Restrictive Layer (if observed):**

Type: rocks
Depth (inches): 10

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos



Soil Photos

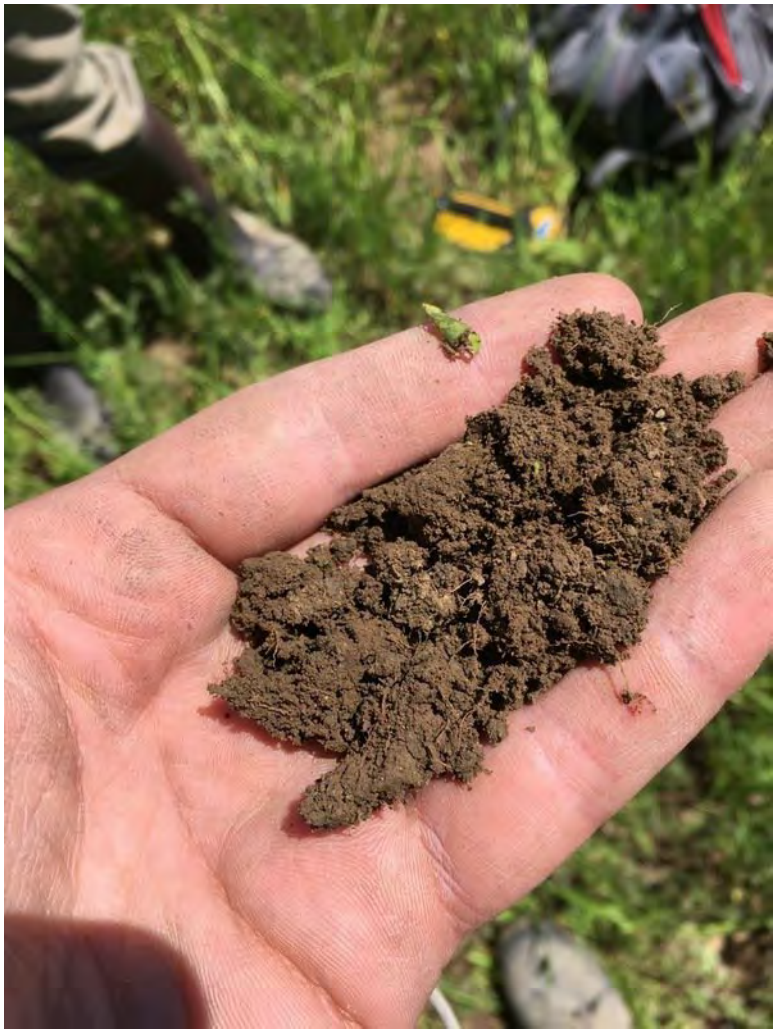
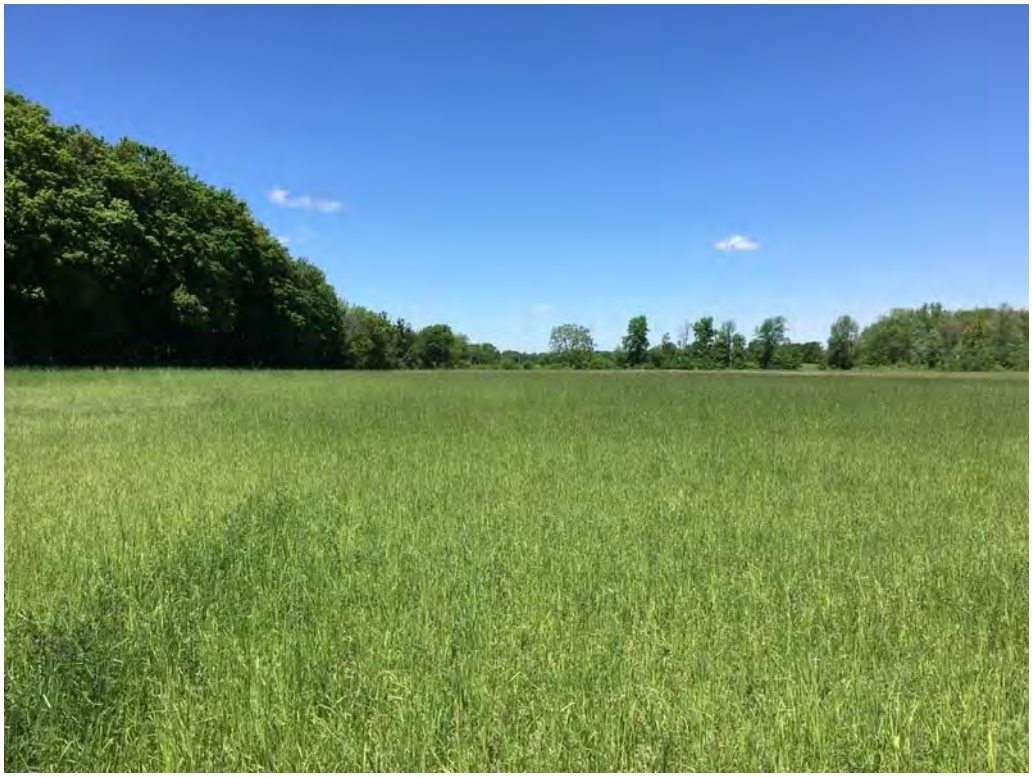


Photo of Sample Plot



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-June-07
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JJB-22; PSS-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0797663 **Long:** -78.0771329 **Datum:** WGS84
**Soil Map Unit Name:** Alden mucky silt loam **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-22 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PSS. wet spring

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 4 |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-22; PSS-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Quercus bicolor* | 5 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 5 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Cornus amomum* | 70 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 70 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Cornus amomum* | 45 | Yes | FACW |
| 2. *Typha latifolia* | 35 | Yes | OBL |
| 3. *Symplocarpus foetidus* | 5 | No | OBL |
| 4. *Verbena urticifolia* | 5 | No | FAC |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 90 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 4 | (A) |
| Total Number of Dominant Species Across All Strata: | 4 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 40 | x 1 = | 40 |
| FACW species | 120 | x 2 = | 240 |
| FAC species | 5 | x 3 = | 15 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 165 | (A) | 295 (B) |
| Prevalence Index = B/A = | 1.8 | | |

**Hydrophytic Vegetation Indicators:**

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-22; PSS-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 5 | 10YR 2/1 | 100 | | | | | Org matter Loam | |
| 5 - 14 | 10YR 5/2 | 70 | 7.5YR 5/6 | 30 | | | Silty Clay | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

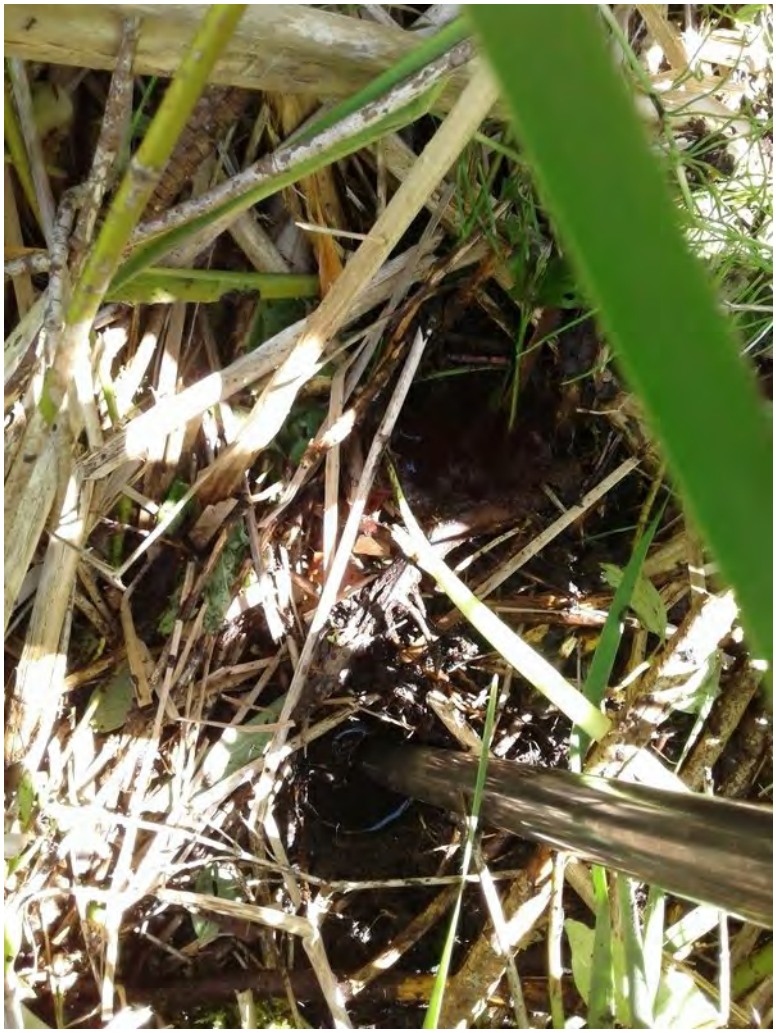
**Restrictive Layer (if observed):**

Type: Clay
Depth (inches): 14

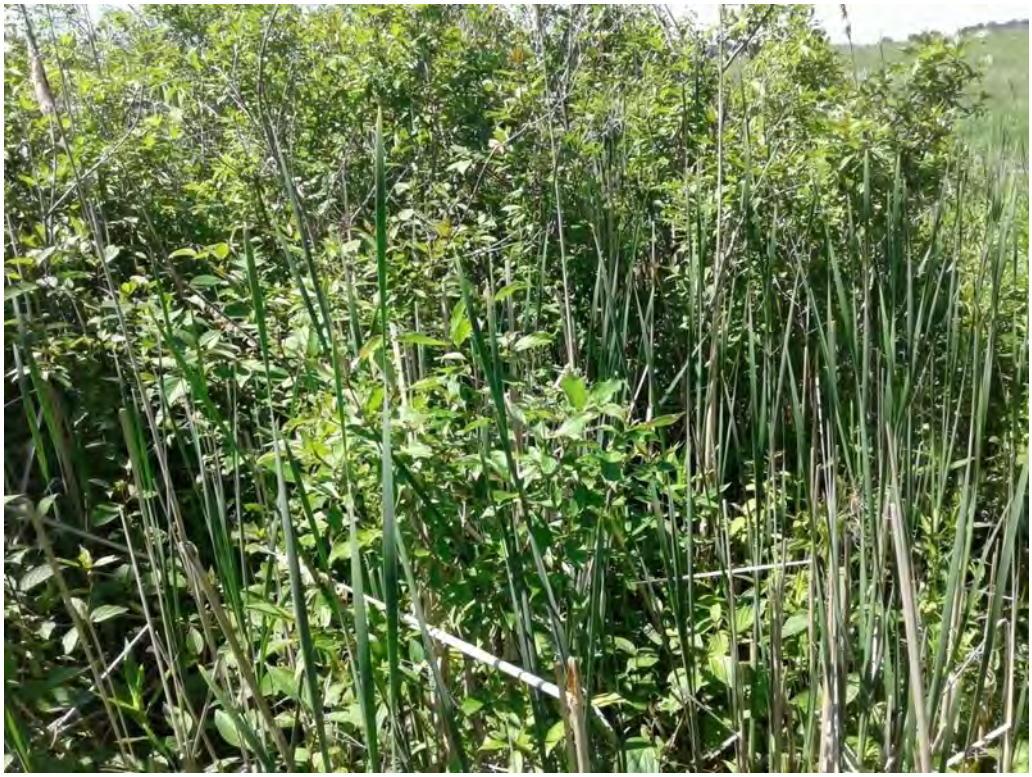
**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

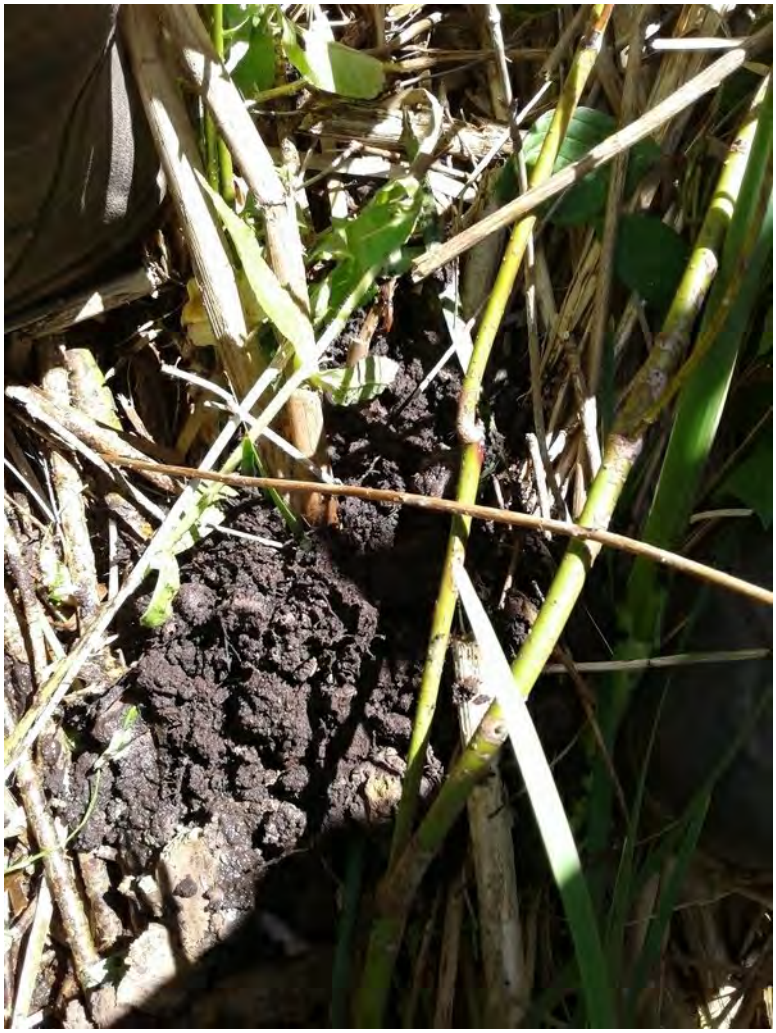
Hydrology Photos



Vegetation Photos



Soil Photos



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee County **Sampling Date:** 2019-May-31
**Applicant/Owner:** NextEra **State:** New York **Sampling Point:** W-JDV-14; UPL-1
**Investigator(s):** Jeff Vandeveer, IBP **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Swale **Local relief (concave, convex, none):** Concave **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0681671 **Long:** -78.1112122 **Datum:** WGS84
**Soil Map Unit Name:** Ontario loam, 8 to 15 percent slopes **NWI classification:** PFO1B
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Area is upland, not all three wetland parameters are present.

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

No positive indication of wetland hydrology was observed.

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JDV-14; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Juglans nigra* | 10 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 10 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Solidago canadensis* | 45 | Yes | FACU |
| 2. *Alliaria petiolata* | 25 | Yes | FACU |
| 3. *Dactylis glomerata* | 20 | No | FACU |
| 4. *Arctium minus* | 10 | No | FACU |
| 5. *Apocynum androsaemifolium* | 5 | No | UPL |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 105 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: | 3 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 0 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 110 | x 4 = | 440 |
| UPL species | 5 | x 5 = | 25 |
| Column Totals | 115 | (A) | 465 (B) |

Prevalence Index = B/A = 4

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC− or drier).

SOIL

Sampling Point: W-JDV-14; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 14 | 10YR 4/4 | 100 | | | | | Silt Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

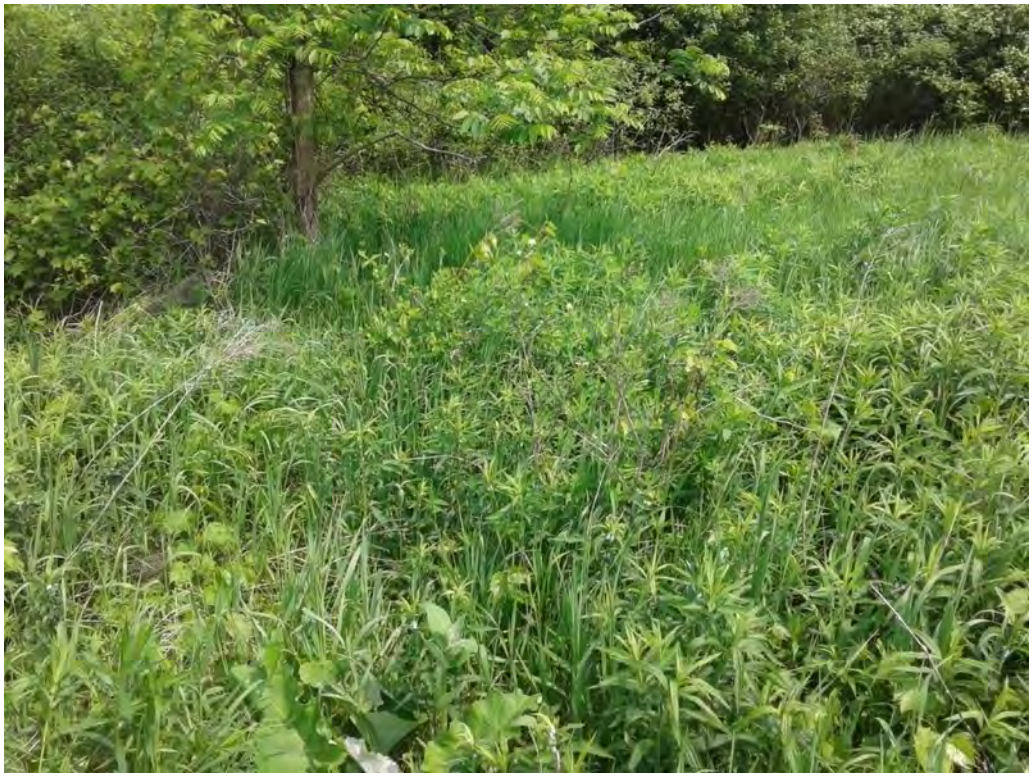
Depth (inches):

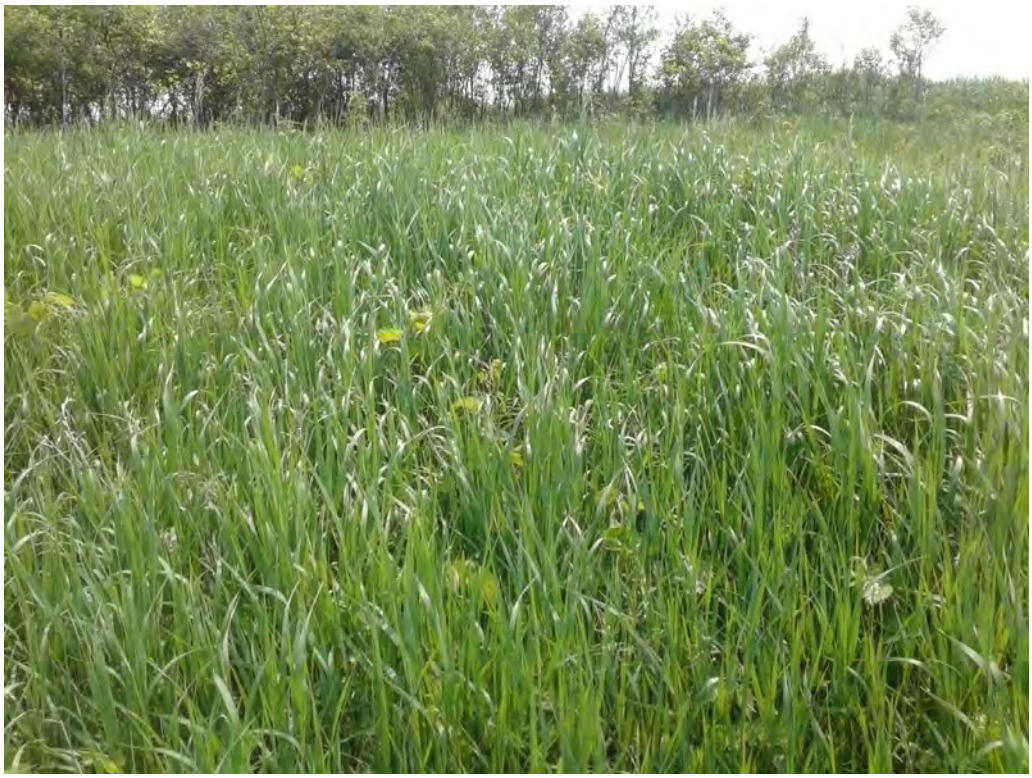
**Hydric Soil Present?** Yes ____ No ✓

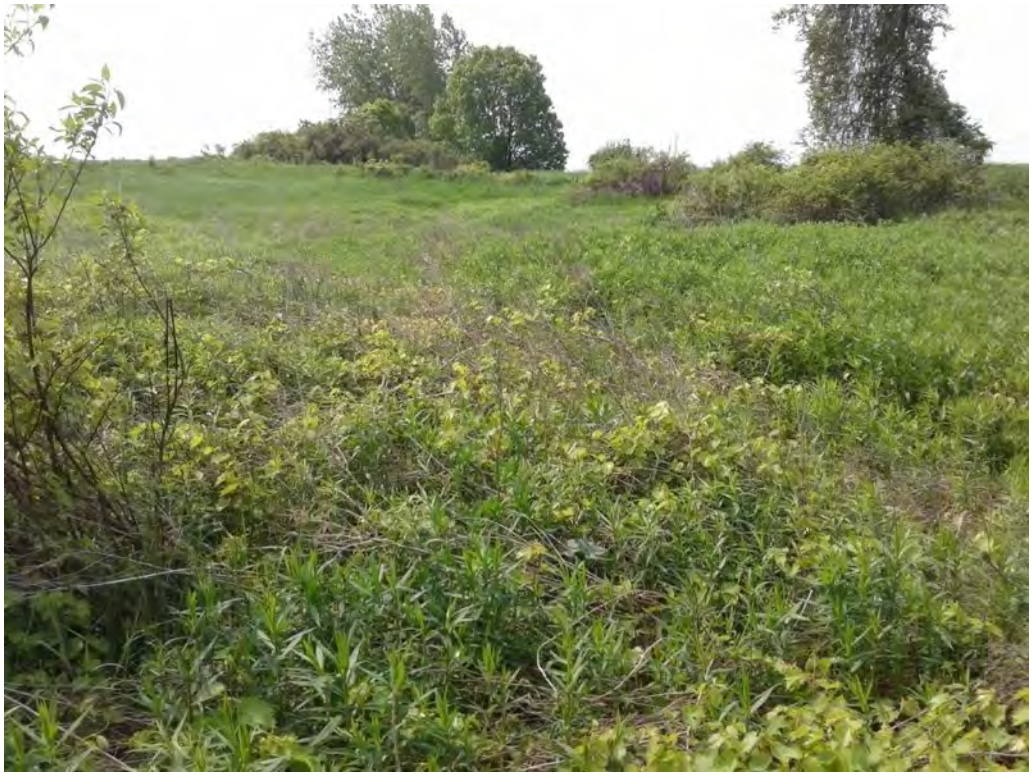
**Remarks:**

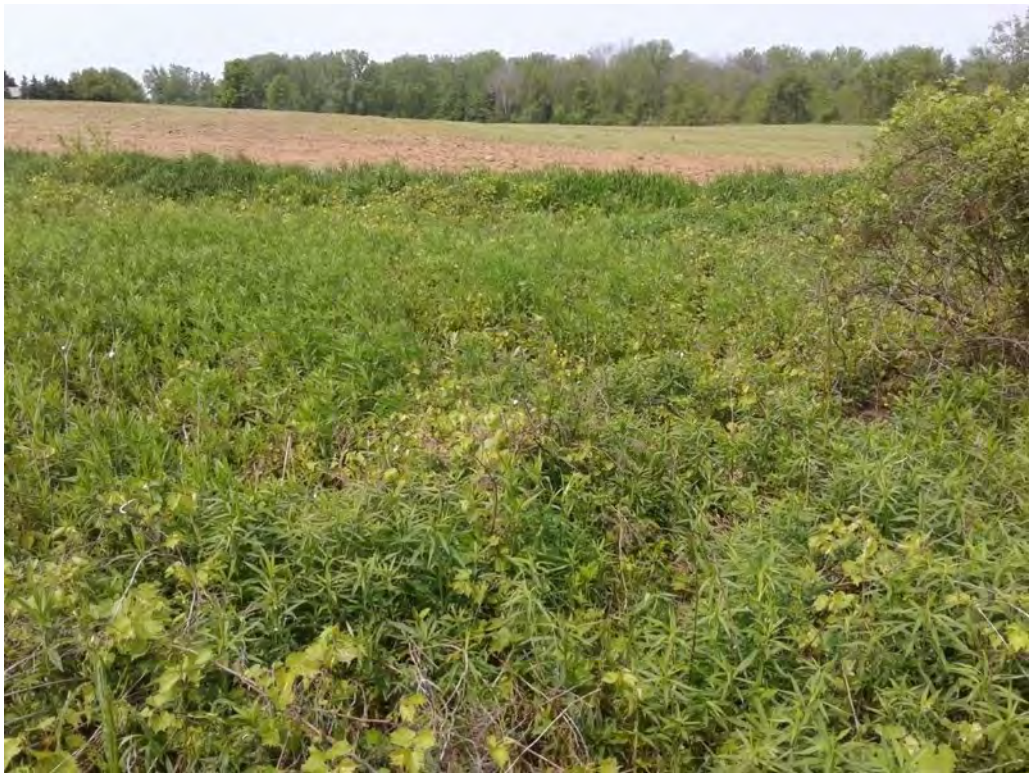
No positive indication of hydric soils was observed.

Photo of Sample Plot









## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-05
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-17; PFO-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Swamp **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0629241141 **Long:** -78.0980643724 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-17 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ✓ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ✓ Sparsely Vegetated Concave Surface (B8)
- ✓ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ✓ No ____ | Depth (inches): | 3 | |
| Water Table Present? | Yes ✓ No ____ | Depth (inches): | 6 | **Wetland Hydrology Present?** Yes ✓ No ____ |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-17; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Carya cordiformis* | 25 | Yes | FAC |
| 2. *Carya ovata* | 20 | Yes | FACU |
| 3. *Fraxinus pennsylvanica* | 15 | Yes | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 60 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Carpinus caroliniana* | 12 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 12 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Carex blanda* | 18 | Yes | FAC |
| 2. *Glyceria striata* | 15 | Yes | OBL |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 33 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 15 | x 1 = | 15 |
| FACW species | 15 | x 2 = | 30 |
| FAC species | 55 | x 3 = | 165 |
| FACU species | 20 | x 4 = | 80 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 105 | (A) | 290 (B) |

Prevalence Index = B/A = 2.8

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-17; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 7 | 10YR 2/1 | 100 | | | | | Silt Loam | |
| 7 - 16 | 2.5Y 3/1 | 70 | 7.5YR 4/6 | 15 | C | M | Silty Clay Loam | |
| 7 - 16 | 10YR 4/1 | 15 | | | | | | |
| | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

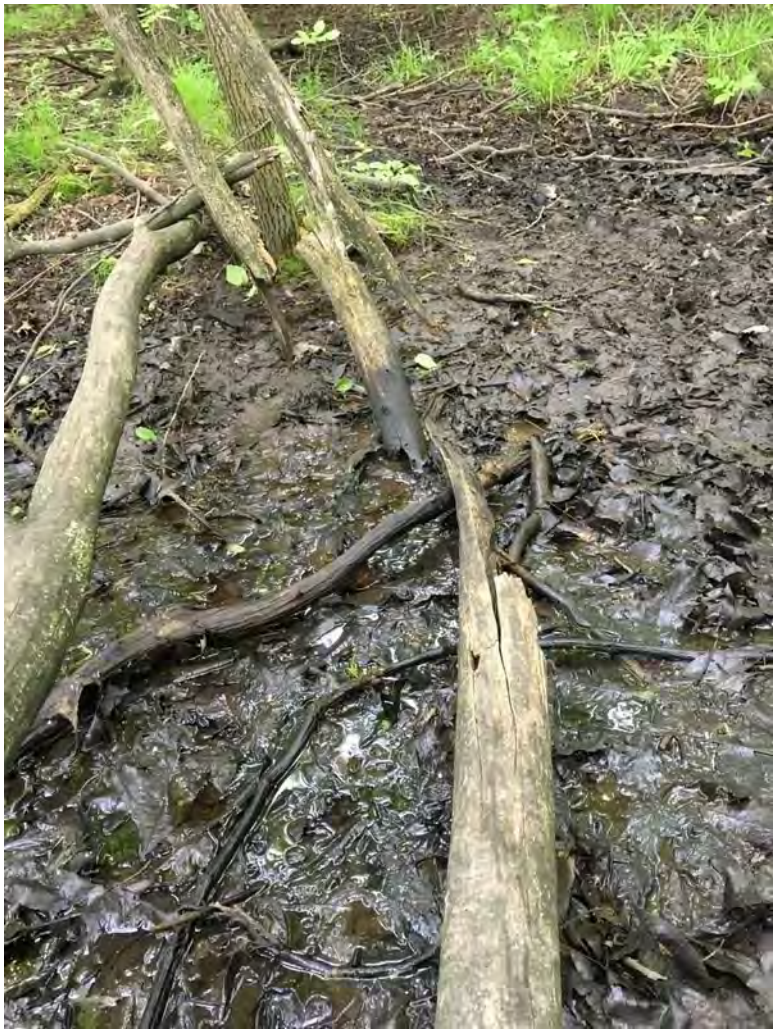
Type: None

Depth (inches):

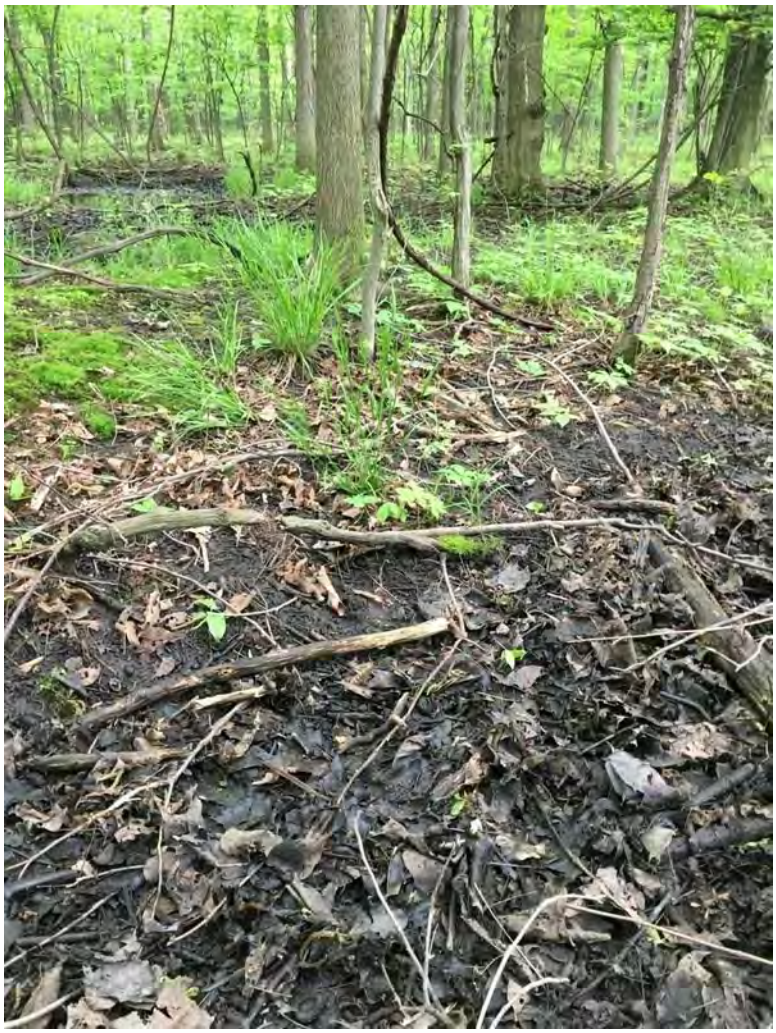
**Hydric Soil Present?** Yes ✓ No ____

**Remarks:**

Hydrology Photos



Vegetation Photos



Soil Photos

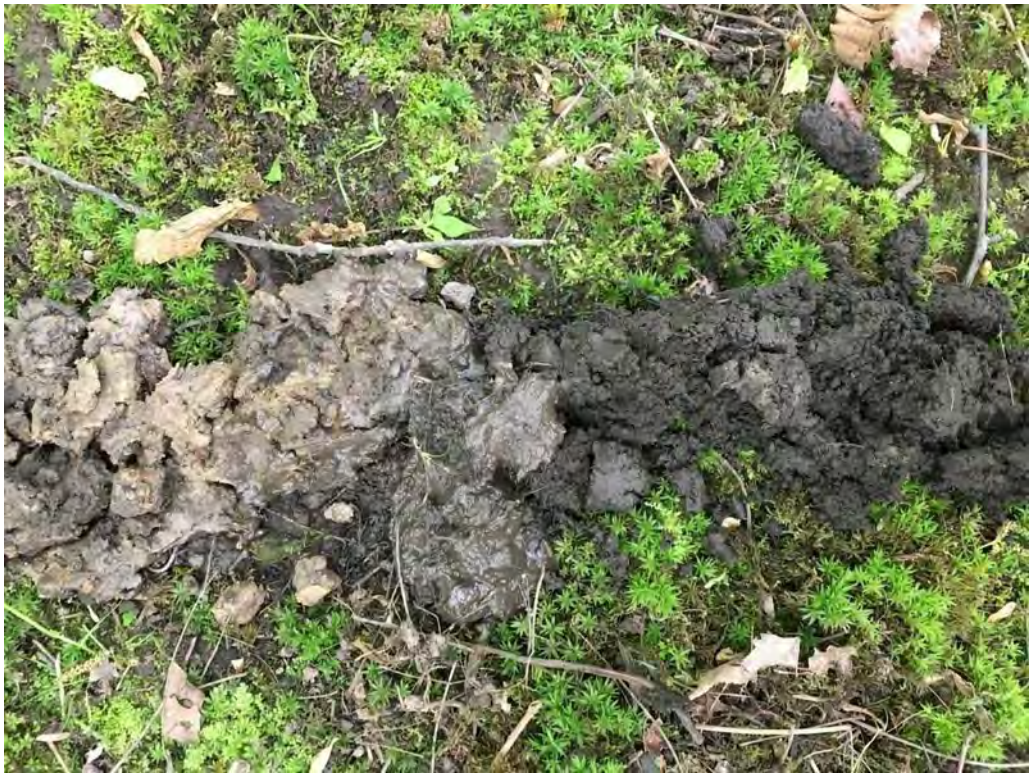
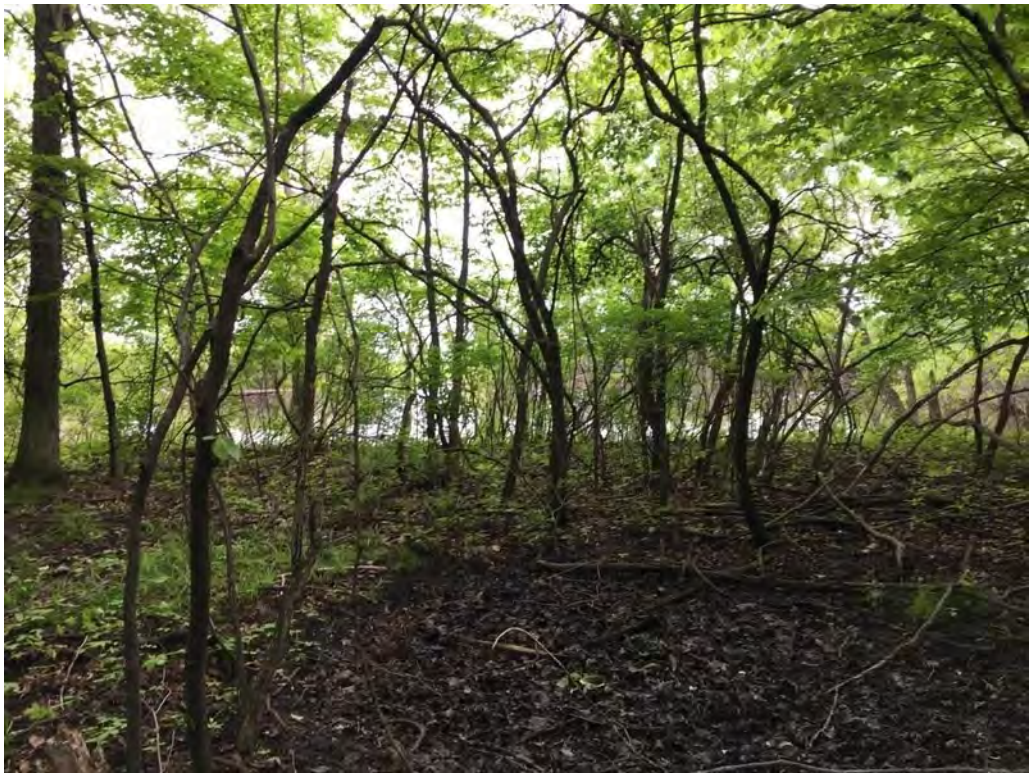
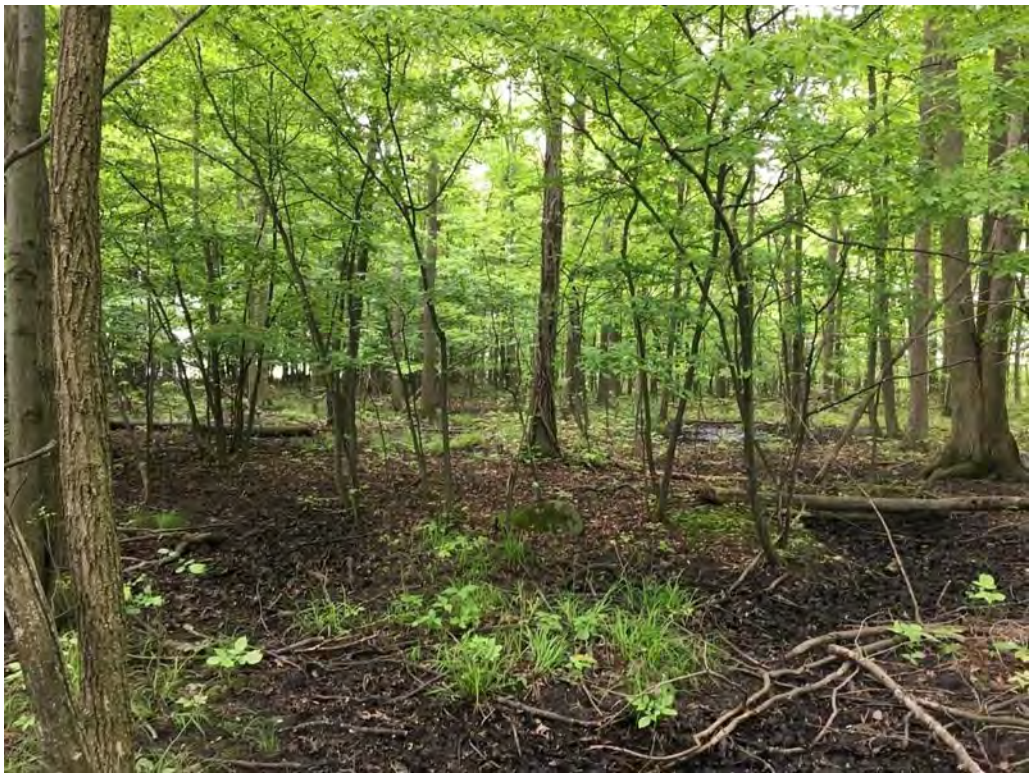
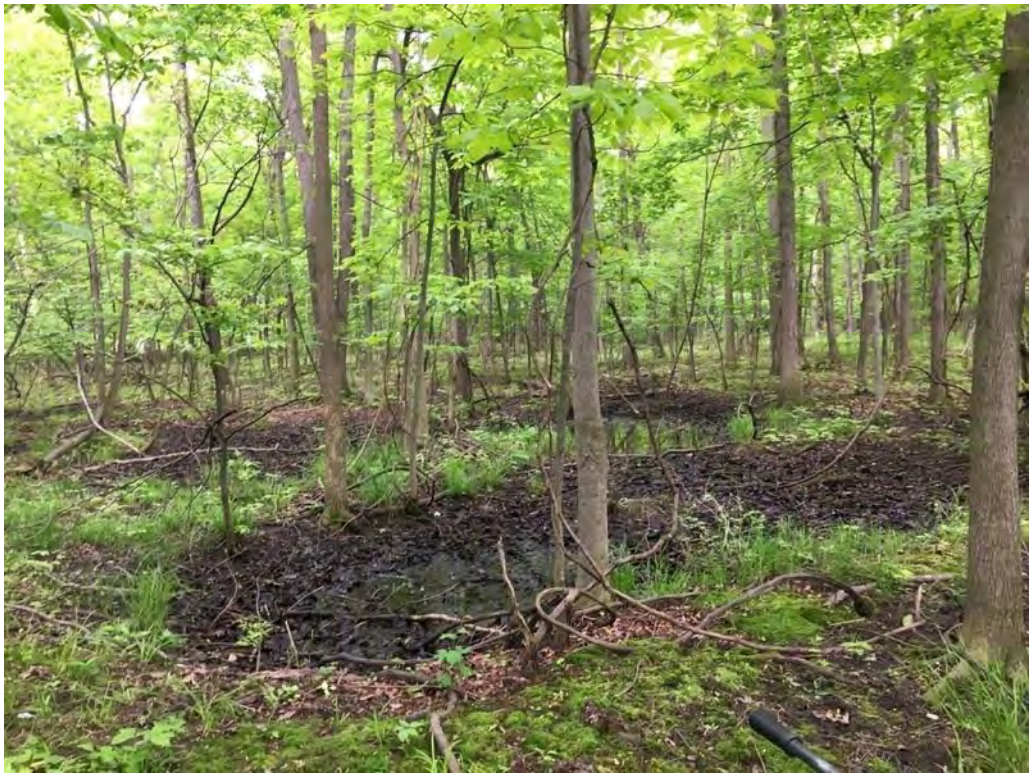


Photo of Sample Plot







## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-June-12

**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-33; UPL-3

**Investigator(s):** Jake Brillo, Isaac Pallant **Section, Township, Range:**

**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Convex **Slope (%):** 1-10

**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0556531903 **Long:** -78.0890455284 **Datum:** WGS84

**Soil Map Unit Name:** Lamson very fine sandy loam **NWI classification:**

**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-33; UPL-3

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |

| Herb Stratum (Plot size: 5 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 0 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30 ft) | | | |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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: 0 (B)

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

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 0 | (A) | 0 (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[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

Active agricultural field

SOIL

Sampling Point: W-JJB-33; UPL-3

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 15 | 10YR 3/2 | 100 | | | | | Silty Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos

Soil Photos

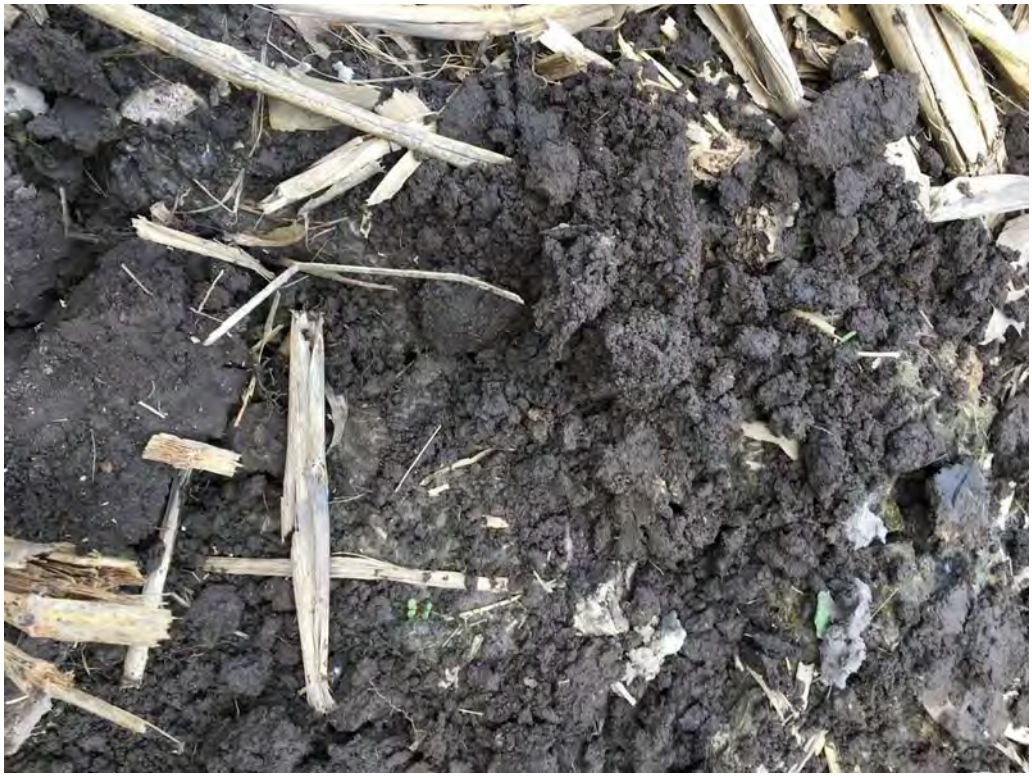
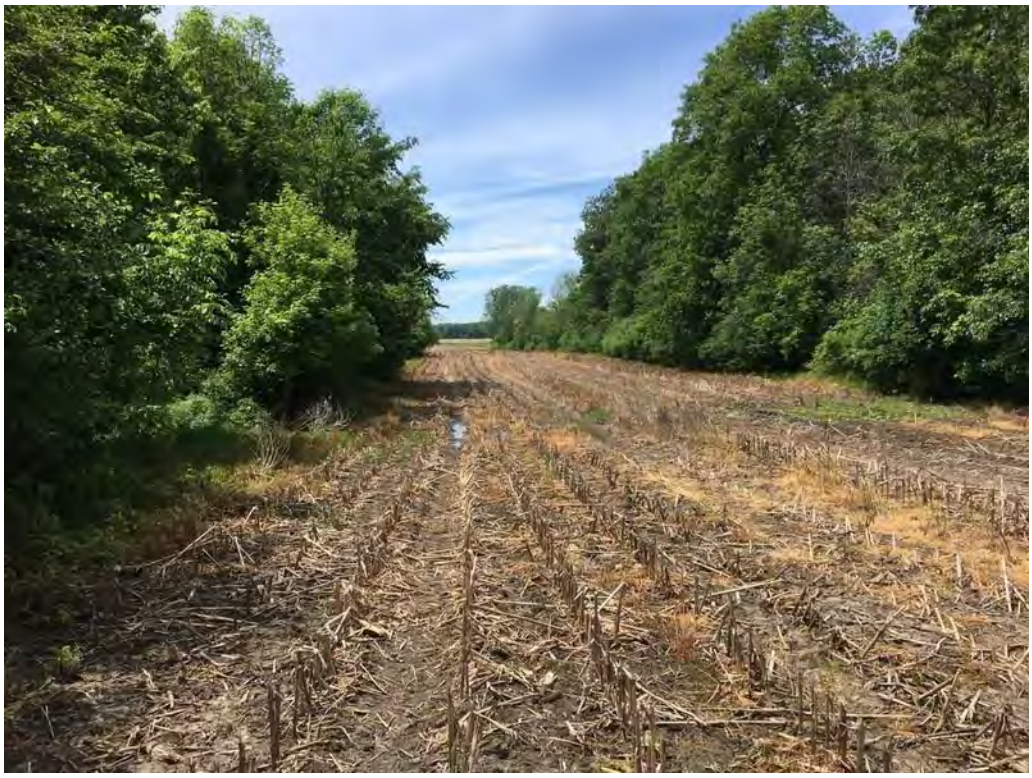
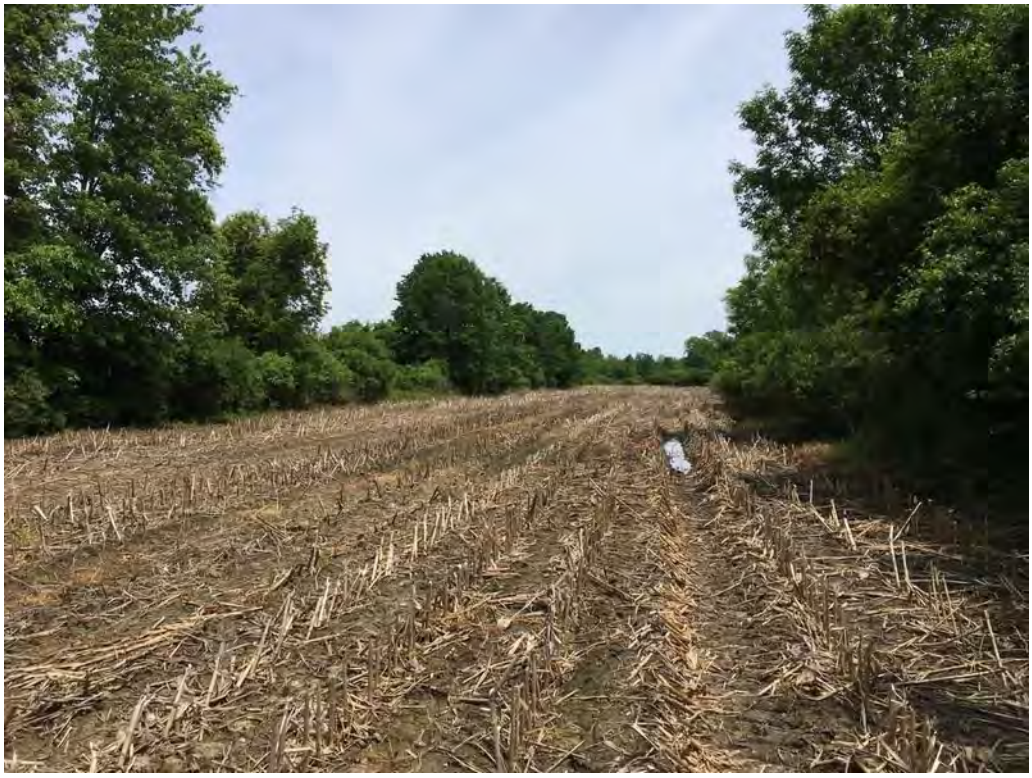


Photo of Sample Plot





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Elba, Genesee **Sampling Date:** 2019-June-06
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-20; PSS-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 0-1
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.046428361 **Long:** -78.1089331862 **Datum:** WGS84
**Soil Map Unit Name:** Ovid silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes _✓_ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes _✓_ 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 ____ | | |
| Hydric Soil Present? | Yes _✓_ No ____ | **Is the Sampled Area within a Wetland?** | **Yes _✓_ No ____** |
| Wetland Hydrology Present? | Yes _✓_ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-20 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PSS. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- _✓_ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- _✓_ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No _✓_ | Depth (inches): | |
| Water Table Present? | Yes ____ No _✓_ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes _✓_ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes _✓_ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-20; PSS-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 10 | Yes | OBL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 10 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Salix nigra* | 60 | Yes | OBL |
| 2. *Cornus alba* | 15 | Yes | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 75 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Solidago canadensis* | 60 | Yes | FACU |
| 2. *Cornus alba* | 15 | No | FACW |
| 3. *Galium asprellum* | 15 | No | OBL |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 90 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. *Vitis riparia* | 3 | No | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 3 | = 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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 85 | x 1 = | 85 |
| FACW species | 30 | x 2 = | 60 |
| FAC species | 3 | x 3 = | 9 |
| FACU species | 60 | x 4 = | 240 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 178 | (A) | 394 (B) |

Prevalence Index = B/A = 2.2

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-20; PSS-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 17 | 10YR 4/2 | 85 | 7.5YR 5/8 | 15 | C | M | Clay Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
_✓_ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

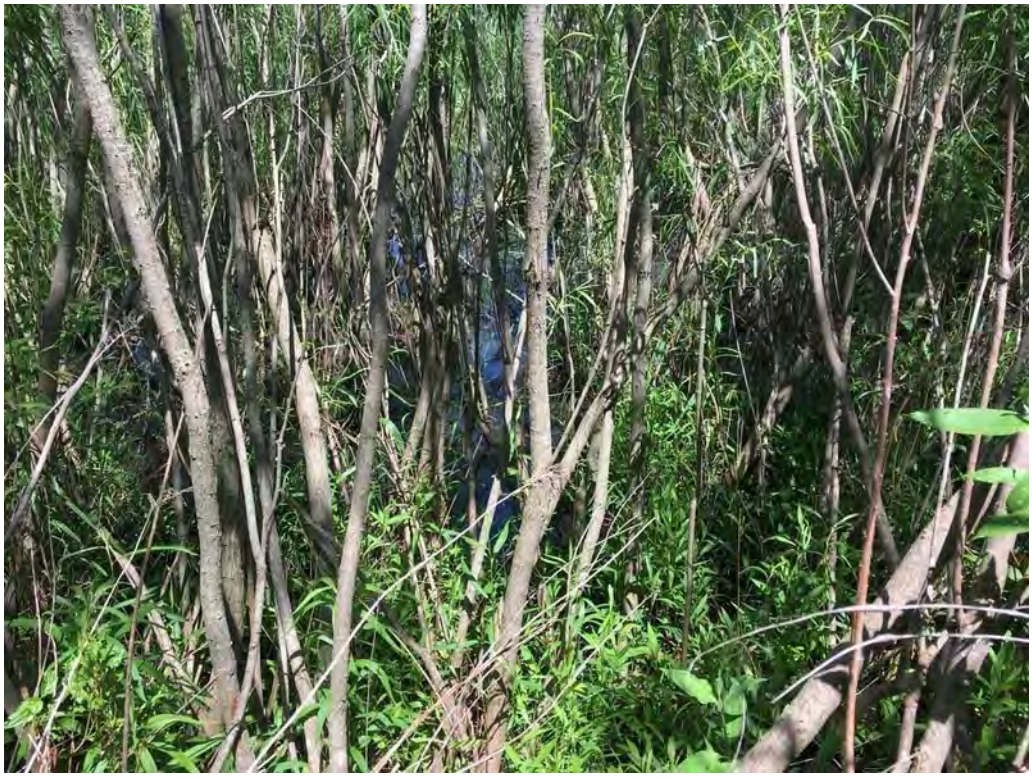
**Restrictive Layer (if observed):**

Type: Gravel
Depth (inches): 17

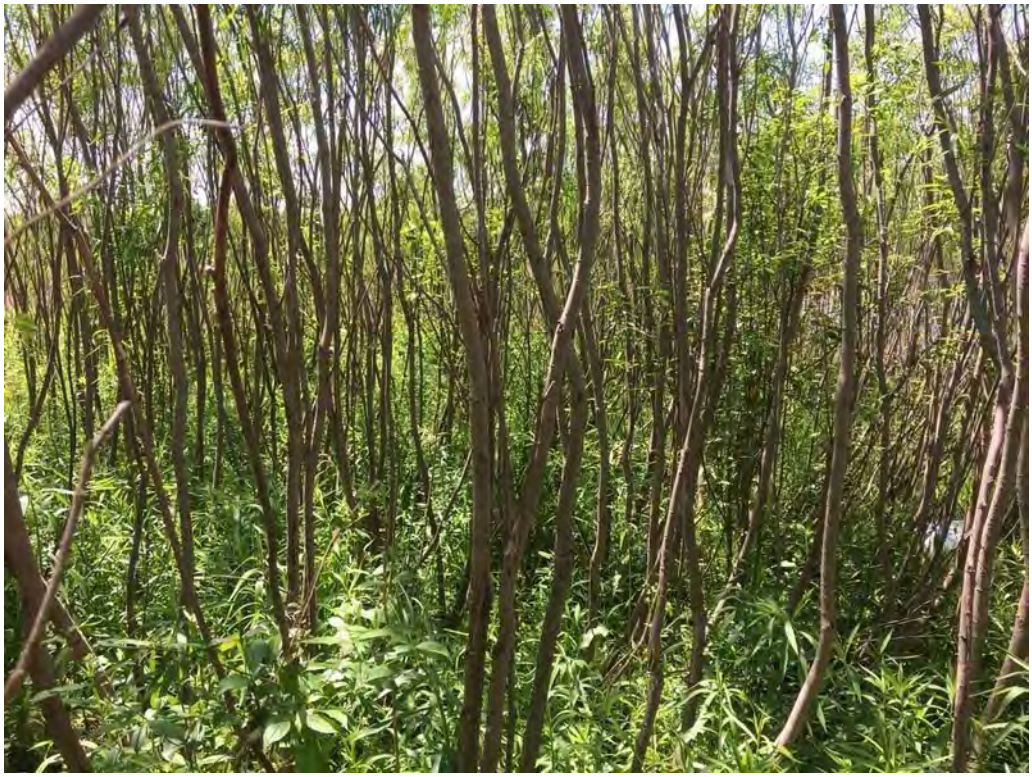
**Hydric Soil Present?** Yes _✓_ No ____

**Remarks:**

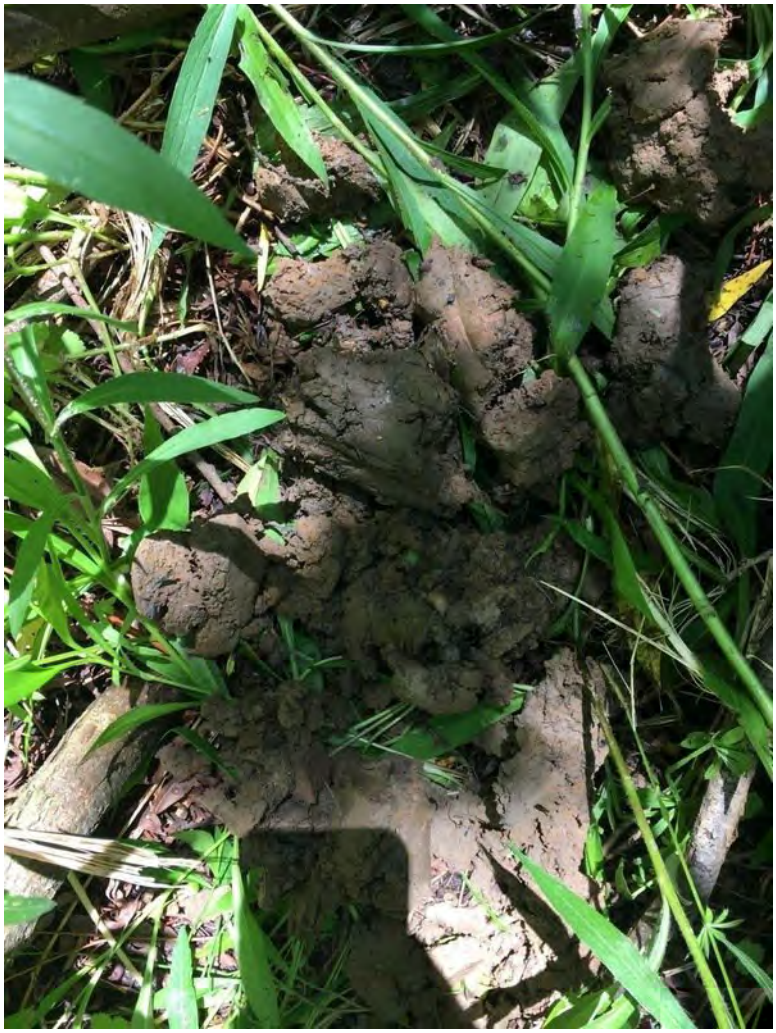
Hydrology Photos



Vegetation Photos



Soil Photos



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Byron, Genesee **Sampling Date:** 2019-May-31
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-10; PFO-1
**Investigator(s):** Jake Brillo, Rebecca Cosgrove **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Depression **Local relief (concave, convex, none):** Concave **Slope (%):** 2-5
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0701550562 **Long:** -78.0585818366 **Datum:** WGS84
**Soil Map Unit Name:** Ontario loam, 0 to 3 percent slopes **NWI classification:** PFO1B
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ 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 ____ | | |
| Hydric Soil Present? | Yes ✓ No ____ | **Is the Sampled Area within a Wetland?** | **Yes ✓ No ____** |
| Wetland Hydrology Present? | Yes ✓ No ____ | **If yes, optional Wetland Site ID:** | W-JJB-10 |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is PFO. Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ✓ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- ___ Surface Soil Cracks (B6)
- ___ 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)
- ✓ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ✓ No ____ | Depth (inches): | 0 |

**Wetland Hydrology Present?** Yes ✓ No ____

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

Recently dug ditch at the southwestern corner of the wetland May have altered hydrology

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-10; PFO-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Fraxinus pennsylvanica* | 40 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 40 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. *Cornus racemosa* | 35 | Yes | FAC |
| 2. *Fraxinus pennsylvanica* | 20 | Yes | FACW |
| 3. *Rhamnus cathartica* | 15 | Yes | FAC |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 70 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Solidago gigantea* | 75 | Yes | FACW |
| 2. *Cornus racemosa* | 18 | No | FAC |
| 3. *Rumex crispus* | 10 | No | FAC |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 103 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That Are OBL, FACW, or FAC: | 5 | (A) |
| Total Number of Dominant Species Across All Strata: | 5 | (B) |
| Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 135 | x 2 = | 270 |
| FAC species | 78 | x 3 = | 234 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 213 (A) | | 504 (B) |
| Prevalence Index = B/A = | 2.4 | | |

**Hydrophytic Vegetation Indicators:**

____ 1- Rapid Test for Hydrophytic Vegetation

_✓_ 2 - Dominance Test is >50%

_✓_ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ____

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

SOIL

Sampling Point: W-JJB-10; PFO-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 2 | 2.5YR 2.5/1 | 100 | | | | | Silt Loam | |
| 2 - 8 | 2.5Y 3/1 | 96 | 10YR 4/6 | 4 | C | M/PL | Silty Clay Loam | |
| 8 - 16 | 7.5YR 4/3 | 80 | 7.5YR 4/6 | 20 | C | M | Clay Loam | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
✓ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None

Depth (inches):

**Hydric Soil Present?** Yes ✓ No ____

**Remarks:**

Vegetation Photos

Soil Photos

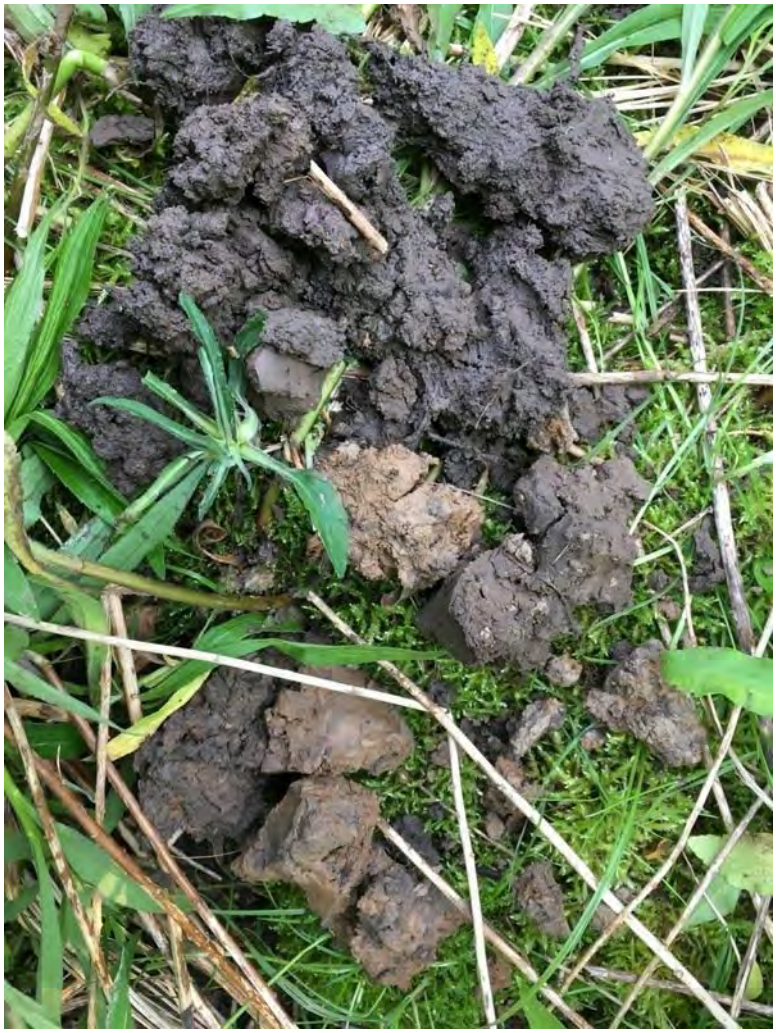
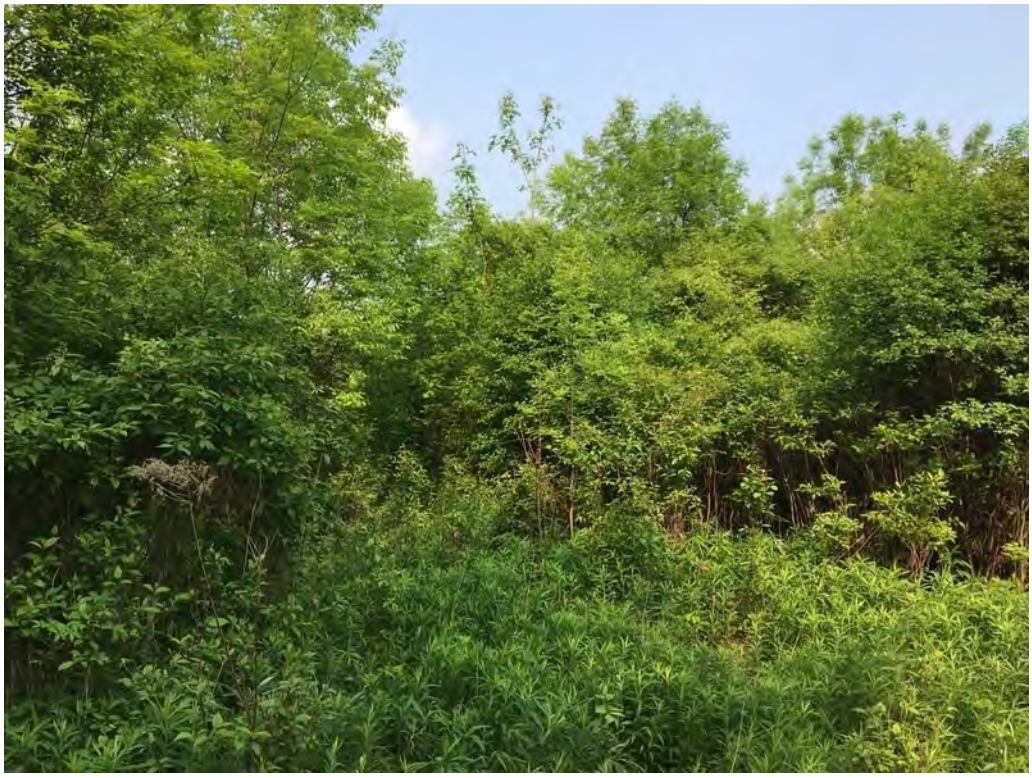


Photo of Sample Plot



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

**Project/Site:** Excelsior **City/County:** Elba, Genesee **Sampling Date:** 2019-June-05
**Applicant/Owner:** NextEra **State:** NY **Sampling Point:** W-JJB-19; UPL-1
**Investigator(s):** Jake Brillo, Nick DeJohn **Section, Township, Range:**
**Landform (hillslope, terrace, etc.):** Agricultural Field **Local relief (concave, convex, none):** Flat **Slope (%):** 1-10
**Subregion (LRR or MLRA):** LRR L **Lat:** 43.0589077995 **Long:** -78.1038763002 **Datum:** WGS84
**Soil Map Unit Name:** Appleton silt loam, 0 to 3 percent slopes **NWI classification:**
**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ____ No ✓ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ 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 ✓ | | |
| Hydric Soil Present? | Yes ____ No ✓ | **Is the Sampled Area within a Wetland?** | **Yes ____ No ✓** |
| Wetland Hydrology Present? | Yes ____ No ✓ | **If yes, optional Wetland Site ID:** | |

**Remarks: (Explain alternative procedures here or in a separate report)**

TRC covertype is UPL. Circumstances are not normal due to agricultural activities, Wetter than average year

### HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

___ Surface Soil Cracks (B6)
___ 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)
___ FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ No ✓ | Depth (inches): | |
| Water Table Present? | Yes ____ No ✓ | Depth (inches): | **Wetland Hydrology Present?** Yes ____ No ✓ |
| Saturation Present? (includes capillary fringe) | Yes ____ No ✓ | Depth (inches): | |

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-19; UPL-1

| Tree Stratum (Plot size: 30 ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5 ft)** | | | |
| 1. *Phleum pratense* | 85 | Yes | FACU |
| 2. *Medicago lupulina* | 60 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 145 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30 ft)** | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | 0 | = 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 | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply By: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 145 | x 4 = | 580 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals | 145 | (A) | 580 (B) |
| Prevalence Index = B/A = | 4 | | |

**Hydrophytic Vegetation Indicators:**

_____ 1- Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is > 50%

_____ 3 - Prevalence Index is ≤ 3.0[1]

_____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]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 ✓

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

SOIL

Sampling Point: W-JJB-19; UPL-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0 - 6 | 10YR 4/3 | 100 | | | | | Silt Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]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) **(LRR R, MLRA 149B)**
___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
___ Loamy Mucky Mineral (F1) **(LRR K, L)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

___ 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)**
___ Dark Surface (S7) **(LRR K, L)**
___ Polyvalue Below Surface (S8) **(LRR K, L)**
___ Thin Dark Surface (S9) **(LRR K, L)**
___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

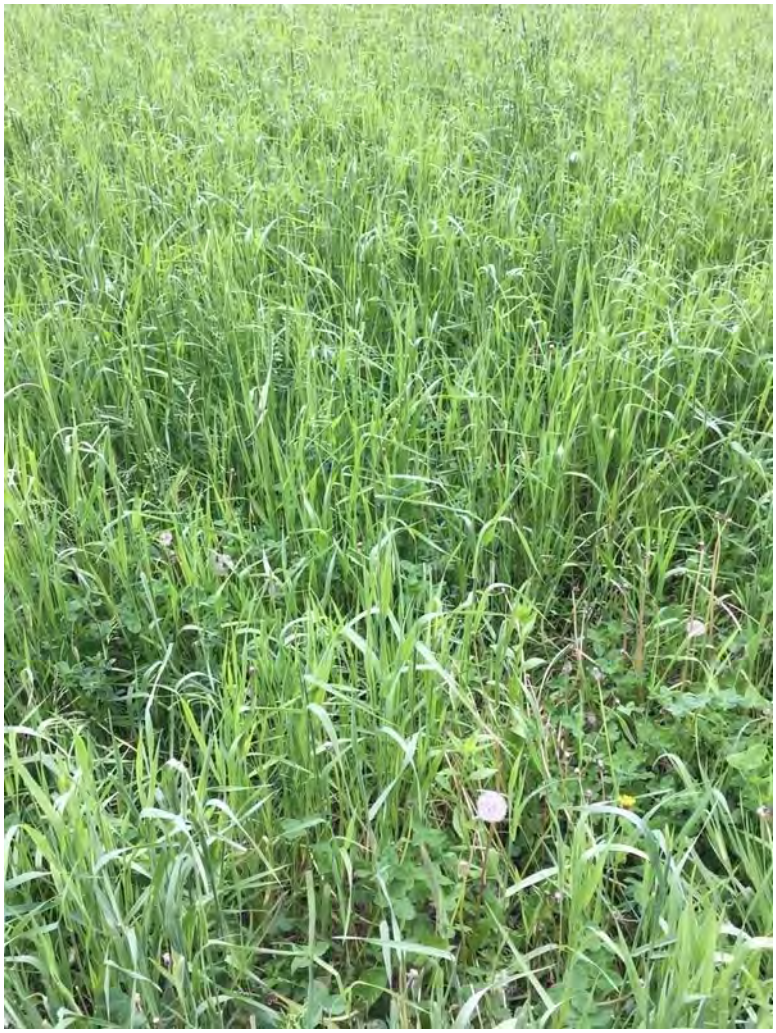
**Restrictive Layer (if observed):**

Type: Rocks
Depth (inches): 6

**Hydric Soil Present?** Yes ____ No ✓

**Remarks:**

Vegetation Photos



Soil Photos

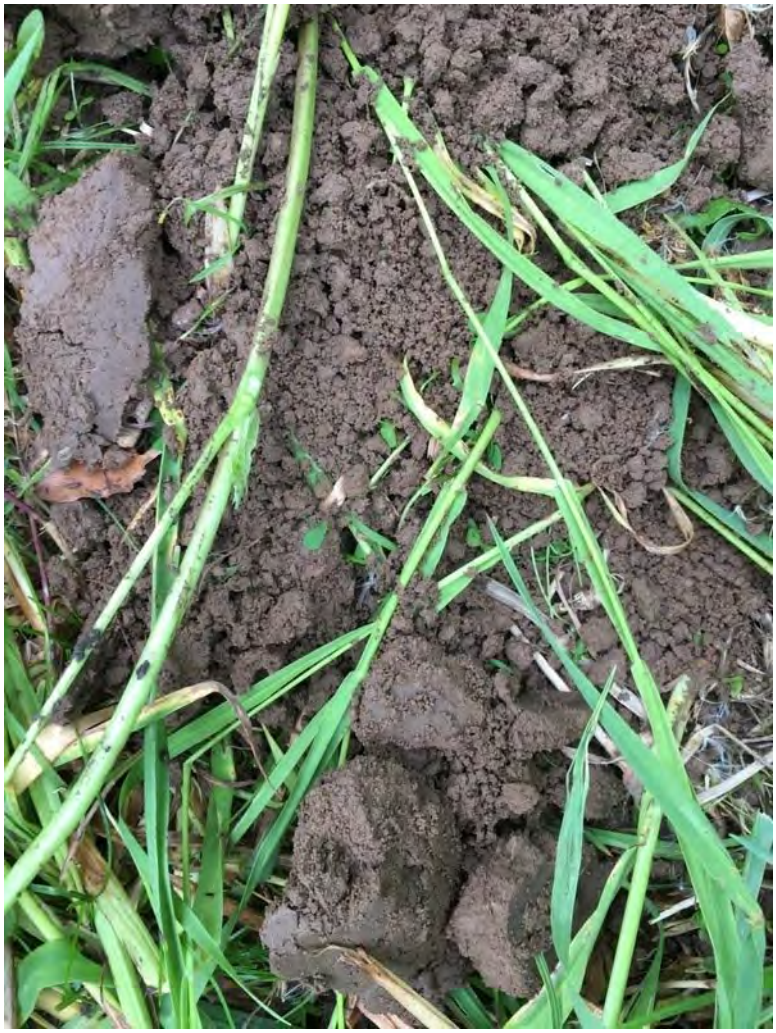
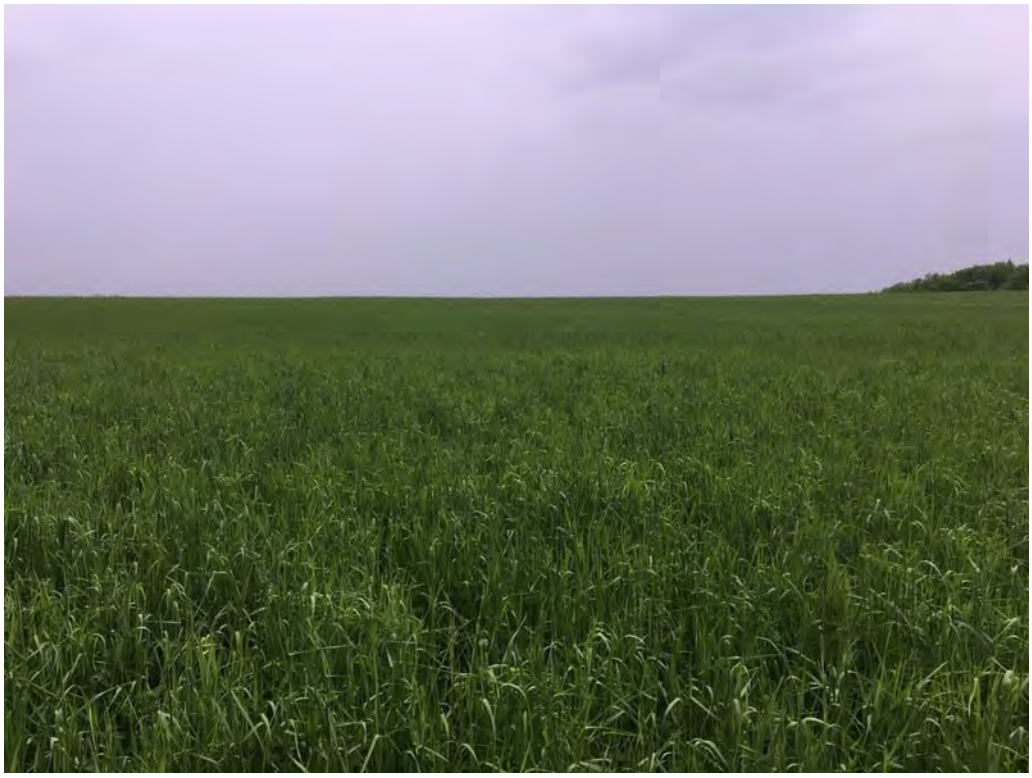


Photo of Sample Plot



# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/29/2019
Project Number: 328808
Evaluated By: JDV
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JDV-01
Stream Name: Spring Creek
Stream Location (e.g. nearest road, structure): North of Route 262

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent flow

**Stream Class**
☒ Perennial
☐ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: East
Average Depth: 2

Width (ft.) across Existing Water: 30
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 30
Width (ft.) across Ordinary High Water Mark*: 30

***Ordinary High Water Mark Indicators***

☐ Natural Line Impressed on Bank ☒ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☒ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☒ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | 20 | 20 |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 1.5
Right*: 1.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | ☒ | ☒ |
| Moderate | | |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☒ Sand Bar
☒ Undercut Banks ☒ Riffle - Pool
☒ Gravel Bar ☒ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☒ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JDV-1

Adjacent Community Type: Forested, Shruby Floodplain

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 20 | Willow, aspen |
| Shrubs | 30 | Willow, dogwood |
| Herbaceous | 50 | Phragmites, goldenrod, dames rocket |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☒ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☒ Frogs | ☒ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Cement bridge on wets end; surrounded by NWI's but no wetland found.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/29/2019
Project Number: 328808
Evaluated By: JDV
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JDV-02
Stream Name: UNT to Spring Creek
Stream Location: North of Route 262
(e.g. nearest road, structure):

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent flow

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☒ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: NE
Average Depth: 3

Width (ft.) across Existing Water: 8
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 8
Width (ft.) across Ordinary High Water Mark*: 8

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☒ Matted, bent, or Absent Vegetation ☒ Water Staining
☐ Soil Character Change ☒ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☒ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☒ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

| Bank Slope | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | 20 | 20 |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 0.75
Right*: 0.75
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | ☒ |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☐ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☒ Organic
☐ Other
Comments: Leaf litter

**Aquatic Habitat**
☐ Aquatic Vegetation ☒ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☒ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JDV-2

Adjacent Community Type: Forested, Shruby Floodplain

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 85 | American elm, white ash, box elder, apple |
| Shrubs | 15 | Dogwood, glossy buckthorne |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Backflow from spring creek; little flow; ag field influenced

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/29/2019
Project Number: 328808
Evaluated By: JDV
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JDV-03
Stream Name: UNT to Spring Creek
Stream Location: North of Route 262
(e.g. nearest road, structure):

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent flow

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage*: ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: South
Average Depth: 2

Width (ft.) across Existing Water: 4
*Flood Plain Present?*
☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 9
Width (ft.) across Ordinary High Water Mark*: 4

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☒ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☒ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | 10 | 10 |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 0.5
Right*: 0.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | |
| High | | ☒ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☒ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JDV-3

Adjacent Community Type: Forested, Shruby Floodplain

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | | |
| Shrubs | 100 | Dogwood, salix, buckthorne, hawthrone |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

agricultural drainage

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/29/2019
Project Number: 328808
Evaluated By: JDV
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JDV-04
Stream Name: UNT to Spring Creek
Stream Location (e.g. nearest road, structure): East of Back Street Road

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent flow

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: West; North
Average Depth: 8

Width (ft.) across Existing Water: 6
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 10
Width (ft.) across Ordinary High Water Mark*: 6

***Ordinary High Water Mark Indicators***

| | | |
|---|---|---|
| ☐ Natural Line Impressed on Bank | ☐ Scour | ☐ Wrack |
| ☐ Matted, bent, or Absent Vegetation | ☒ Water Staining | |
| ☐ Soil Character Change | ☐ Shelving | |
| ☐ Terrestrial Vegetation Destroyed | ☐ Bed & Banks | |
| ☐ Disturbed/Washed-away Leaf Litter | ☐ Litter & Debris | |
| ☐ Plant Community Change | ☐ Sediment Sorting | |
| ☐ Multiple Observed Flow Events | ☐ Deposition | |

**Streambed Substrate**

| | | |
|---|---|---|
| ☐ Shale | ☐ Sand | |
| ☐ Bedrock | ☒ Organic | |
| ☐ Boulders | ☐ Cobble/Gravel | |
| ☐ Silt | ☐ Clay | |
| ☒ Other: muck | | |

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**

| | | | |
|---|---|---|---|
| ☐ Boating | ☐ Shellfishing | ☐ Swimming | ☐ Irrigation |
| ☐ Fishing | ☐ Drainage | ☐ Drinking | ☐ Aquaculture |
| ☐ Other | | | |

**Water Quality**
☐ Clear ☐ Turbid ☒ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | 20 | 20 |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 1.5
Right*: 1.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | ☒ |
| High | | |

**Bank Substrate**

| | | | |
|---|---|---|---|
| ☐ Shale | ☐ Gravel | ☒ Silt/Clay | ☐ Cobble |
| ☐ Bedrock | ☐ Sand | ☐ Riprap | ☐ Organic |
| ☐ Other | | | |

Comments:

**Aquatic Habitat**

| | |
|---|---|
| ☒ Aquatic Vegetation | ☐ Mud Bar |
| ☐ Overhanging Vegetation | ☐ Sand Bar |
| ☐ Undercut Banks | ☐ Riffle - Pool |
| ☐ Gravel Bar | ☐ Plunge Pools |
| ☐ Other | |

**Estimated Canopy Closure**

| | |
|---|---|
| ☐ 0 - 10% | ☒ 50 - 60% |
| ☐ 10 - 20% | ☐ 60 - 70% |
| ☐ 20 - 30% | ☐ 70 - 80% |
| ☐ 30 - 40% | ☐ 80 - 90% |
| ☐ 40 - 50% | ☐ 90 - 100% |

# Stream Inventory Data Form

Stream Delineation ID S-JDV-4

Adjacent Community Type: Agriculture/Forest

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 25 | Ash, maple |
| Shrubs | 40 | Dogwood, willow |
| Herbaceous | 35 | Cattails, phragmites, goldenrod |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☒ Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Intermittent stream/roadside ditch/wetland; sharp 90° turn

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/29/2019
Project Number: 328808
Evaluated By: JDV
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JDV-01
Stream Name: Spring Creek
Stream Location (e.g. nearest road, structure): North of Cochran Road

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent flow

**Stream Class**
☒ Perennial
☐ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: NE
Average Depth:

Width (ft.) across Existing Water: 14
*Flood Plain Present?* ☒ Yes, Measure Bankfull Width (ft.):
☐ No, Measure Top of Bank Width (ft.): 18
Width (ft.) across Ordinary High Water Mark*: 15

***Ordinary High Water Mark Indicators***
☒ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☒ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | 20 | 20 |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 2
Right*: 1.75
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | ☒ |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☒ Sand Bar
☒ Undercut Banks ☒ Riffle - Pool
☒ Gravel Bar ☒ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☒ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JDV-1

Adjacent Community Type: Scrub/Shrub

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 15 | Aspen, maple, willow |
| Shrubs | 65 | Salix, dogwood |
| Herbaceous | 20 | Garlic mustard, goldenrod, |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☒ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☒ Frogs | ☒ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Continuation of Spring Creek from JDV day 2; no bridge; beaver activities obstructed.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/31/2019
Project Number: 328808
Evaluated By: JDV
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JDV-05
Stream Name: UNT to Spring Creek
Stream Location: North of Cochran Road
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent flow

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☒ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: North
Average Depth:

Width (ft.) across Existing Water: 2
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 6
Width (ft.) across Ordinary High Water Mark*: 4.5

***Ordinary High Water Mark Indicators***

☐ Natural Line Impressed on Bank ☒ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☒ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☒ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☒ Silt ☐ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☒ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | 15 | 15 |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 1
Right*: 1
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | ☒ |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☐ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☒ Organic
☐ Other
Comments: Muck/Leaf Litter

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☒ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JDV-6

Adjacent Community Type: Shruby

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 5 | Aspen |
| Shrubs | 55 | Salix, dogwood, elderberry |
| Herbaceous | 40 | orchard grass, goldenrod, |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Low quality stream, densely vegetated

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/31/2019
Project Number: 328808
Evaluated By: JDV
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JDV-6
Stream Name: UNT to Spring Creek
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:*

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☒ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: NE
Average Depth:

Width (ft.) across Existing Water: 1.5
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.):
☒ No, Measure Top of Bank Width (ft.): 8
Width (ft.) across Ordinary High Water Mark*: 4

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

| Bank Slope | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | 30 | 30 |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 0.75
Right*: 0.75
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | ☒ |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☒ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☒ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JDV-6

Adjacent Community Type: Forested

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 100 | Red Maple |
| Shrubs | | |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Barely within the parcel.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/14/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-15
Stream Name: N/A
Stream Location (e.g. nearest road, structure):

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* INT, connects to Black Creek

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☒ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: SE
Average Depth:

Width (ft.) across Existing Water: 1
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.):
☒ No, Measure Top of Bank Width (ft.): 3.5
Width (ft.) across Ordinary High Water Mark*: 3

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☒ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☒ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☒ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 1
Right*: 1
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | ☒ | ☒ |
| Moderate | | |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☒ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☒ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: Upland, Forest

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 45 | Ash, Bitternut, Sugar Maple |
| Shrubs | | |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐ Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☒ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/12/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-14
Stream Name: N/A
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Connects to wetland

**Stream Class**
☐ Perennial
☐ Intermittent
☒ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: S
Average Depth: 0.5-mostly dry

Width (ft.) across Existing Water: 2
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 4
Width (ft.) across Ordinary High Water Mark*: 3

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☒ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☒ Disturbed/Washed-away Leaf Litter ☒ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☒ Silt ☒ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☒ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☐ Turbid ☒ Slightly Turbid ☐ Very Turbid
Comments

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 1.5
Right*: 1.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | | |
| High | ☒ | ☒ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other: Ditch/Exposed
Comments

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☒ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: Lawn, Ag Field

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 15 | Eastern Cottonwood |
| Shrubs | | |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☒ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Ditch/stream starts closed, flows into PEM wetland.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/11/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-13
Stream Name: N/A
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* INT, flows into JD wetland

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: SE
Average Depth: 1

Width (ft.) across Existing Water: 3
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 7
Width (ft.) across Ordinary High Water Mark*: 5

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☒ Scour ☒ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☒ Litter & Debris
☒ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☒ Silt ☒ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | ☒ | ☒ |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 4
Right*: 4
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | ☒ |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☒ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: PFO Wetland

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 45 | Ash, Buckthorne |
| Shrubs | | |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☒ Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Flows into W-JJB-31, fed by W-JJB-32.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/13/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-12
Stream Name: Bigelow Creek
Stream Location (e.g. nearest road, structure):

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Large named stream

**Stream Class**
☒ Perennial
☐ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate To High ☐ High ☐ Flood
Flow Direction:
Average Depth: 1 foot

Width (ft.) across Existing Water: 16
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.):
☒ No, Measure Top of Bank Width (ft.): 20
Width (ft.) across Ordinary High Water Mark*: 18

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☒ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☒ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 2.5
Right*: 3
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | ☒ | ☒ |
| Moderate | | |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☒ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☒ Other: Beaver Dams

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☒ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 20 | Green Ash, Willow |
| Shrubs | 20 | Dogwood, Honeysuckle |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☒ Waterfowl | ☒ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☒ Frogs | ☒ Beaver | ☐ Otter | |
| ☒ Turtles | ☒ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Large stream (Bigelow Creek), beaver dams to the south west, becomes PUB/PEM wetland (W-JJB-31), ends open in NE, Corners to wetland in SW.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/11/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-11
Stream Name: N/A
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Perennial, flows off site

**Stream Class**
☒ Perennial
☐ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage*: ☐ Dry ☐ Low ☒ Moderate ☒ High ☐ Flood
Flow Direction: NE
Average Depth: 4

Width (ft.) across Existing Water: 2
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 3.5
Width (ft.) across Ordinary High Water Mark*: 3

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☒ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☒ Disturbed/Washed-away Leaf Litter ☒ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☒ Silt ☐ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 2
Right*: 3
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | ☒ | ☒ |
| Moderate | | |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☒ Other Mud
Comments

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☒ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 20 | Quaking Aspen, Willow, Cottonwood |
| Shrubs | 20 | Ragweed, goldenrod, willow, cottonwood |
| Herbaceous | 50 | Ragweed, goldenrod |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☒ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Sunny, connects to W-JJB-27 and flows offsite.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/10/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-10
Stream Name:
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* INT

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage*: ☒ Dry ☐ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: East
Average Depth: 0

Width (ft.) across Existing Water: 0
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 5
Width (ft.) across Ordinary High Water Mark*: 4

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☒ Scour ☒ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☒ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☒ Silt ☒ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☒ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments: N/A

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 3
Right*: 4
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | | |
| High | ☒ | ☒ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☒ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

| | | | |
|---|---|---|---|
| Adjacent Community Type | Wheat Field | | |
| Percent Cover | | Dominant Species | |
| Trees | | | |
| Shrubs | | | |
| Herbaceous | 10 | Wheat | |
| Woody Vines | | | |
| Bare Soil/Rock | | *Type* | |
| Impervious | | *Type* | |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Overflow channel for 59 (underground drain tiles).

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/10/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-09
Stream Name:
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: SE
Average Depth: 4 in

Width (ft.) across Existing Water: 3
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 4
Width (ft.) across Ordinary High Water Mark*: 3

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☒ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☒ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☒ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☒ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☒ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments: N/A

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 1
Right*: 2
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | | |
| High | ☒ | ☒ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☒ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: Wheat Fields

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | | |
| Shrubs | | |
| Herbaceous | 5 | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☒ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Stream created by drain tiles outletting in middle of field, INT stream S 10 acts as overflow channel.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/6/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-08
Stream Name:
Stream Location:
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* INT, flows off site

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: East
Average Depth: 2 in

Width (ft.) across Existing Water: 2
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 3
Width (ft.) across Ordinary High Water Mark*: 1.5

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☒ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☒ Silt ☐ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments: N/A

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | ☒ | ☒ |
| 8 - 15% (5 - 9°) Moderately Sloping | ☐ | ☐ |
| 15 - 25% (9 - 14°) Steeply Sloping | ☐ | ☐ |
| 25 - 35% (14 - 20°) Steep | ☐ | ☐ |
| >35% (>20°) Very Steep | ☐ | ☐ |

**Bank Height (ft.)**
Left*: 0.5
Right*: 0.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | ☒ | ☒ |
| Moderate | ☐ | ☐ |
| High | ☐ | ☐ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☒ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☒ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: Upland forest, ag field ~100ft after

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 15 | Green Ash |
| Shrubs | 30 | Honeysuckle |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☒ Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Flows off site of connection with W-JDV-15, also becomes very dif use.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/6/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-07
Stream Name: N/A
Stream Location: Near Storowitz Road
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* INT, flows to JD stream

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: NE
Average Depth:

Width (ft.) across Existing Water: 3
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 5
Width (ft.) across Ordinary High Water Mark*: 4.5

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☒ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☒ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☐ Turbid ☒ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | ☒ | ☒ |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 3
Right*: 3.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | |
| High | | ☒ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☒ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

* Hydric soil and algal growth present, moderate flow after heavy rain the previous day.



Version 2.0 February 1, 2018

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

| | | |
|---|---|---|
| Adjacent Community Type | | |
| Percent Cover | | Dominant Species |
| Trees | | |
| Shrubs | 30 | Staghorn Sumac, Green Ash, Box Elder |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Flows out of culvert on Storowitz Road, Approximately 20ft of Rt 13 impacted by debris (tires, junk, scrap metal), flows into excavated overflow of S-JJB-6.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/6/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-06
Stream Name:
Stream Location (e.g. nearest road, structure): BYN1053, BYN1054

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Perennial, flows off site

**Stream Class**
☒ Perennial
☐ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: NW
Average Depth: 2.5 ft

Width (ft.) across Existing Water: 16ft
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 24ft
Width (ft.) across Ordinary High Water Mark*: 20ft

***Ordinary High Water Mark Indicators***
☒ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☒ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☒ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☐ Turbid ☒ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 5
Right*: 6
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | ☒ | ☒ |
| Moderate | | |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☒ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☐ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☒ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 60 | Acer negundo, Frax pen |
| Shrubs | | |
| Herbaceous | 40 | Garlic Mustard, Dames Rocket, Impatiens capensis, false nettle |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☒ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Clear/overcast, 65°F recent rain; contains 2 excavated overflow pits, surround landscape is agriculture, fringe does not meet wetland criteria. Starts at culvert on east side of Storowitz Road and ends open.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/14/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-05
Stream Name: Black Creek
Stream Location (e.g. nearest road, structure):

Presumed Regulatory Authority
[X] U.S. Army Corps [ ] State
*Rationale:* Large named stream

**Stream Class**
[X] Perennial
[ ] Intermittent
[ ] Ephemeral
[ ] Undetermined

**Observed Hydrology**
*Flow Stage* [ ] Dry [ ] Low [X] Moderate [ ] High [ ] Flood
Flow Direction: NW
Average Depth: 2.5 ft

Width (ft.) across Existing Water: 16ft
*Flood Plain Present?* [ ] Yes, Measure Bankfull Width (ft.):
[X] No, Measure Top of Bank Width (ft.): 24ft
Width (ft.) across Ordinary High Water Mark*: 20ft

**Streambed Substrate**
[ ] Shale [ ] Sand
[ ] Bedrock [ ] Organic
[ ] Boulders [X] Cobble/Gravel
[X] Silt [X] Clay
[ ] Other

**Channel Gradient**
[X] <2% (<1°) Gentle
[ ] 2 - 4% (1 - 2°) Moderate
[ ] 4 - 10% (2 - 6°) Steep
[ ] >10% (>6°) Very Steep

***Ordinary High Water Mark Indicators***
[ ] Natural Line Impressed on Bank [X] Scour [X] Wrack
[ ] Matted, bent, or Absent Vegetation [ ] Water Staining
[ ] Soil Character Change [ ] Shelving
[ ] Terrestrial Vegetation Destroyed [X] Bed & Banks
[ ] Disturbed/Washed-away Leaf Litter [ ] Litter & Debris
[ ] Plant Community Change [ ] Sediment Sorting
[ ] Multiple Observed Flow Events [X] Deposition

**Observed Use**
[ ] Boating [ ] Shellfishing [ ] Swimming [ ] Irrigation
[ ] Fishing [ ] Drainage [ ] Drinking [ ] Aquaculture
[X] Other: Potential for fishing

**Water Quality**
[ ] Clear [ ] Turbid [X] Slightly Turbid [ ] Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | X | X |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 2
Right*: 2
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | X | X |
| Moderate | | |
| High | | |

**Bank Substrate**
[ ] Shale [ ] Gravel [X] Silt/Clay [ ] Cobble
[ ] Bedrock [ ] Sand [ ] Riprap [ ] Organic
[ ] Other
Comments:

**Aquatic Habitat**
[ ] Aquatic Vegetation [ ] Mud Bar
[X] Overhanging Vegetation [ ] Sand Bar
[X] Undercut Banks [ ] Riffle - Pool
[X] Gravel Bar [ ] Plunge Pools
[X] Other: In stream strctures

**Estimated Canopy Closure**
[ ] 0 - 10% [ ] 50 - 60%
[ ] 10 - 20% [ ] 60 - 70%
[ ] 20 - 30% [ ] 70 - 80%
[X] 30 - 40% [ ] 80 - 90%
[ ] 40 - 50% [ ] 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: PFO and Upland Forest

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 35 | Sugar maple, willow |
| Shrubs | | |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☒ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☒ Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Continuation of S-JJB-05 in different parcel. PFO present in southern section to dry ridge in north

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/34/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-05
Stream Name: Black Creek
Stream Location: BYN1004
(e.g. nearest road, structure):

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Large named stream

**Stream Class**
☒ Perennial
☐ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☐ Low ☒ Moderate ☐ High ☐ Flood
Flow Direction: North
Average Depth: 1 ft

Width (ft.) across Existing Water: 19
*Flood Plain Present?* ☒ Yes, Measure Bankfull Width (ft.):
☐ No, Measure Top of Bank Width (ft.): 25
Width (ft.) across Ordinary High Water Mark*: 22

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☒ Scour ☒ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☒ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☒ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☒ Cobble/Gravel
☐ Silt ☐ Clay
☐ Other

**Channel Gradient**
☐ <2% (<1°) Gentle
☒ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☒ Other: none observed but likely fishing

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 4
Right*: 4
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | ☒ | ☒ |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☒ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☒ Gravel Bar ☐ Plunge Pools
☐ Other: In stream strctures

**Estimated Canopy Closure**
☒ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☒ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

0-10%: Part of stream in power line ROW
30-40%: In woods

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: PEM Wetland/PFO

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 30 | Green ash, black walnut, red maple |
| Shrubs | 10 | Various salix spp |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | | |
|---|---|---|---|---|---|
| ☐ Waterfowl | ☒ Fish | ☐ Salamanders | ☐ Mink | ☒ Other | Likely supports turtles, snakes, frogs |
| ☐ Snakes | ☐ Frogs | ☒ Beaver | ☐ Otter | | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☒ Invertebrates | | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*: Mussel habitat?

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Large named stream, wetland/flood plain associated, 30% underneath power line ROW.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/31/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-04
Stream Name: N/A
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* INT, NWI

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☒ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: Northwest
Average Depth: 2

Width (ft.) across Existing Water: 3
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☐ No, Measure Top of Bank Width (ft.): 6
Width (ft.) across Ordinary High Water Mark*: 4

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☒ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☒ Silt ☒ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other

**Water Quality**
☐ Clear ☐ Turbid ☒ Slightly Turbid ☐ Very Turbid
Comments

| Bank Slope | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | ☒ | ☒ |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 3
Right*: 3
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | | |
| High | ☒ | ☒ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments: recently dug

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☒ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

| | | | |
|---|---|---|---|
| Adjacent Community Type | Ag Field | | |
| Percent Cover | | Dominant Species | |
| Trees | | | |
| Shrubs | | | |
| Herbaceous | 10 | Cattails | |
| Woody Vines | | | |
| Bare Soil/Rock | | *Type* | |
| Impervious | | *Type* | |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☒ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Recently dug drainage ditch in active ag field mapped on NWI, fringed by PEM portion of W-JJB-10.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/31/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-03
Stream Name: N/A
Stream Location:
(e.g. nearest road, structure)

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* INT, NWI

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☒ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: West
Average Depth: 2

Width (ft.) across Existing Water: 3
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☐ No, Measure Top of Bank Width (ft.): 6
Width (ft.) across Ordinary High Water Mark*: 4

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☐ Matted, bent, or Absent Vegetation ☐ Water Staining
☒ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☒ Silt ☒ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☒ Drainage ☐ Drinking ☐ Aquaculture
☐ Other: Ditch

**Water Quality**
☐ Clear ☐ Turbid ☒ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | | |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | ☒ | ☒ |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 3
Right*: 3
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | | |
| High | ☒ | ☒ |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other: recently dug
Comments:

**Aquatic Habitat**
☐ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☒ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

| | | | |
|---|---|---|---|
| Adjacent Community Type | Ag Field | | |
| Percent Cover | | Dominant Species | |
| Trees | | | |
| Shrubs | | | |
| Herbaceous | 5 | Cattail | |
| Woody Vines | | | |
| Bare Soil/Rock | | *Type* | |
| Impervious | | *Type* | |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☒ No ☐ Yes *Species & Evidence*

☐ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Recently dug drainage ditch in active ag field mapped on NWI, fringed by PEM portion of W-JJB-10, S-JJB-04 (also NWI ditch) flows into feature.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/24/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-02
Stream Name: N/A
Stream Location
(e.g. nearest road, structure)

Presumed Regulatory Authority
*Rationale:* INT

- [x] U.S. Army Corps
- [ ] State

**Stream Class**
- [ ] Perennial
- [x] Intermittent
- [ ] Ephemeral
- [ ] Undetermined

**Observed Hydrology**
*Flow Stage*
- [ ] Dry
- [x] Low
- [ ] Moderate
- [ ] High
- [ ] Flood

Flow Direction: West
Average Depth: 1in

Width (ft.) across Existing Water: 1.5
*Flood Plain Present?*
- [ ] Yes, Measure Bankfull Width (ft.)
- [x] No, Measure Top of Bank Width (ft.): 4

Width (ft.) across Ordinary High Water Mark*: 3.5

***Ordinary High Water Mark Indicators***
- [ ] Natural Line Impressed on Bank
- [ ] Scour
- [ ] Wrack
- [ ] Matted, bent, or Absent Vegetation
- [ ] Water Staining
- [x] Soil Character Change
- [ ] Shelving
- [ ] Terrestrial Vegetation Destroyed
- [x] Bed & Banks
- [ ] Disturbed/Washed-away Leaf Litter
- [ ] Litter & Debris
- [ ] Plant Community Change
- [ ] Sediment Sorting
- [ ] Multiple Observed Flow Events
- [ ] Deposition

**Streambed Substrate**
- [ ] Shale
- [ ] Sand
- [ ] Bedrock
- [ ] Organic
- [ ] Boulders
- [ ] Cobble/Gravel
- [x] Silt
- [ ] Clay
- [ ] Other

**Channel Gradient**
- [x] <2% (<1°) Gentle
- [ ] 2 - 4% (1 - 2°) Moderate
- [ ] 4 - 10% (2 - 6°) Steep
- [ ] >10% (>6°) Very Steep

**Observed Use**
- [ ] Boating
- [ ] Shellfishing
- [ ] Swimming
- [ ] Irrigation
- [ ] Fishing
- [ ] Drainage
- [ ] Drinking
- [ ] Aquaculture
- [ ] Other

**Water Quality**
- [x] Clear
- [ ] Turbid
- [ ] Slightly Turbid
- [ ] Very Turbid

Comments

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | x | x |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 0.5
Right*: 0.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | x | x |
| Moderate | | |
| High | | |

**Bank Substrate**
- [ ] Shale
- [ ] Gravel
- [x] Silt/Clay
- [ ] Cobble
- [ ] Bedrock
- [ ] Sand
- [ ] Riprap
- [ ] Organic
- [ ] Other

Comments

**Aquatic Habitat**
- [ ] Aquatic Vegetation
- [ ] Mud Bar
- [ ] Overhanging Vegetation
- [ ] Sand Bar
- [ ] Undercut Banks
- [ ] Riffle - Pool
- [ ] Gravel Bar
- [ ] Plunge Pools
- [ ] Other

**Estimated Canopy Closure**
- [ ] 0 - 10%
- [ ] 50 - 60%
- [ ] 10 - 20%
- [x] 60 - 70%
- [ ] 20 - 30%
- [ ] 70 - 80%
- [ ] 30 - 40%
- [ ] 80 - 90%
- [ ] 40 - 50%
- [ ] 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type: Upland forest, wetland (PFO)

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 50 | Sugar Maple |
| Shrubs | | |
| Herbaceous | | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Flows out of W-JJB-04.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 05/28/2019
Project Number: 328808
Evaluated By: JJB
Address:
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-JJB-01
Stream Name: Tributary to Blackcreek
Stream Location (e.g. nearest road, structure):

Presumed Regulatory Authority
☒ U.S. Army Corps ☐ State
*Rationale:* Intermittent flow

**Stream Class**
☐ Perennial
☒ Intermittent
☐ Ephemeral
☐ Undetermined

**Observed Hydrology**
*Flow Stage* ☐ Dry ☒ Low ☐ Moderate ☐ High ☐ Flood
Flow Direction: NE
Average Depth: 2in

Width (ft.) across Existing Water: 3.5ft
*Flood Plain Present?* ☐ Yes, Measure Bankfull Width (ft.)
☒ No, Measure Top of Bank Width (ft.): 4.5ft
Width (ft.) across Ordinary High Water Mark*: 4ft

**Streambed Substrate**
☐ Shale ☐ Sand
☐ Bedrock ☐ Organic
☐ Boulders ☐ Cobble/Gravel
☒ Silt ☒ Clay
☐ Other

**Channel Gradient**
☒ <2% (<1°) Gentle
☐ 2 - 4% (1 - 2°) Moderate
☐ 4 - 10% (2 - 6°) Steep
☐ >10% (>6°) Very Steep

***Ordinary High Water Mark Indicators***
☐ Natural Line Impressed on Bank ☐ Scour ☐ Wrack
☒ Matted, bent, or Absent Vegetation ☐ Water Staining
☐ Soil Character Change ☐ Shelving
☐ Terrestrial Vegetation Destroyed ☒ Bed & Banks
☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris
☐ Plant Community Change ☐ Sediment Sorting
☐ Multiple Observed Flow Events ☐ Deposition

**Observed Use**
☐ Boating ☐ Shellfishing ☐ Swimming ☐ Irrigation
☐ Fishing ☐ Drainage ☐ Drinking ☐ Aquaculture
☐ Other None

**Water Quality**
☒ Clear ☐ Turbid ☐ Slightly Turbid ☐ Very Turbid
Comments:

**Bank Slope**

| | Left* | Right* |
|---|---|---|
| 0 - 8% (0 - 5°) Nearly Level - Gently Sloping | ☒ | ☒ |
| 8 - 15% (5 - 9°) Moderately Sloping | | |
| 15 - 25% (9 - 14°) Steeply Sloping | | |
| 25 - 35% (14 - 20°) Steep | | |
| >35% (>20°) Very Steep | | |

**Bank Height (ft.)**
Left*: 0.5
Right*: 0.5
** Direction when facing downstream*

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | ☒ | ☒ |
| Moderate | | |
| High | | |

**Bank Substrate**
☐ Shale ☐ Gravel ☒ Silt/Clay ☐ Cobble
☐ Bedrock ☐ Sand ☐ Riprap ☐ Organic
☐ Other
Comments:

**Aquatic Habitat**
☒ Aquatic Vegetation ☐ Mud Bar
☐ Overhanging Vegetation ☐ Sand Bar
☐ Undercut Banks ☐ Riffle - Pool
☐ Gravel Bar ☐ Plunge Pools
☐ Other

**Estimated Canopy Closure**
☒ 0 - 10% ☐ 50 - 60%
☐ 10 - 20% ☐ 60 - 70%
☐ 20 - 30% ☐ 70 - 80%
☐ 30 - 40% ☐ 80 - 90%
☐ 40 - 50% ☐ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-JJB-15

Adjacent Community Type

| Percent Cover | | Dominant Species |
|---|---|---|
| Trees | 20 | Swamp White Oak, Basswood, Red Maple |
| Shrubs | 20 | |
| Herbaceous | 60 | |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | |
|---|---|---|---|---|
| ☐ Waterfowl | ☐ Fish | ☐ Salamanders | ☐ Mink | ☐ Other |
| ☐ Snakes | ☐Frogs | ☐ Beaver | ☐ Otter | |
| ☐ Turtles | ☐ Toads | ☐ Muskrat | ☐ Invertebrates | |

Presence of Rare, Threatened, or Endangered Species

☐ No ☐ Yes *Species & Evidence*

☒ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Overcast, intermit. raining.

Sketch (Optional)

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/17/19
Project Number: 328808
Evaluated By: Weston Hillegas
Address: 7717 Ivison Road, byron, Ny 14422
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-WSH-01
Stream Name: N/A
Stream Location: Originates from a culvert under Ivison Road.
(e.g. nearest road, structure): Ivison Road

**Stream Classification**

- ___ Perennial
- ___ Intermittent
- X Ephemeral

**Flow**

*Direction*: East

- ___ Dry
- X Low
- ___ Moderate
- ___ High
- ___ Flooding

**Presumed Regulatory Authority**

- ___ U.S. Army Corps
- ___ State

**Streambed Substrate**

- ___ Shale
- ___ Bedrock
- ___ Boulders
- ___ Cobble/Gravel
- ___ Other
- ___ Sand
- X Silt/Clay
- ___ Organic

**Channel Gradient**

- ___ <2% (<1°) Gentle
- X 2 - 4% (1 - 2°) Moderate
- ___ 4 - 10% (2 - 6°) Steep
- ___ >10% (>6°) Very Steep

**Width Measurements (feet)**

Ordinary High Water Mark: 2.5
Across Existing Water: 2
*Flood Plain Present?*
Yes, Measure Bankfull Width: ___
No, Measure Top of Bank Width: 6"

**Probed Stream Depth**

- X 0 - 6 in.
- ___ 6 - 12 in.
- ___ 12 - 24 in.
- ___ 24 - 36 in.
- ___ >36 in.

**Observed Use**

- ___ Boating
- ___ Swimming
- ___ Fishing
- ___ Drinking
- ___ Other
- ___ Shellfishing
- ___ Irrigation
- X Drainage
- ___ Aquaculture

**Water Quality**

- ___ Clear
- ___ Slightly Turbid
- X Turbid
- ___ Very Turbid

**Bank Height (feet)**

Left*: 0.5
Right*: 0.5

** Direction when facing downstream*

**Bank Slope**

| | | Left* | Right* |
|---|---|---|---|
| 0 - 8% (0 - 5°) | Nearly Level to Gently Sloping | | |
| 8 - 15% (5 - 9°) | Moderately Sloping | | |
| 15 - 25% (9 - 14°) | Steeply Sloping | X | X |
| 25 - 35% (14 - 20°) | Steep | | |
| >35% (>20°) | Very Steep | | |

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | | |
| High | X | X |

**Bank Substrate**

- ___ Shale
- ___ Bedrock
- ___ Cobble
- X Silt/Clay
- ___ Other
- ___ Gravel
- ___ Sand
- X Organic
- ___ Riprap

**Aquatic Habitat**

- ___ Aquatic Vegetation
- ___ Overhanging Vegetation
- ___ Undercut Banks
- ___ Gravel Bar
- X Other (None)
- ___ Mud Bar
- ___ Sand Bar
- ___ Riffle - Pool
- ___ Plunge Pools

**Estimated Canopy Closure**

- ___ 0 - 10%
- ___ 10 - 20%
- X 20 - 30%
- ___ 30 - 40%
- ___ 40 - 50%
- ___ 50 - 60%
- ___ 60 - 70%
- ___ 70 - 80%
- ___ 80 - 90%
- ___ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-WSH-01

| | | |
|---|---|---|
| Adjacent Community Type | UPL, Agriculture Field | |
| Percent Cover | Dominant Species | |
| Trees | | |
| Shrubs | | |
| Herbaceous | 10 | Taller Fescue |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Waterfowl | | Fish | | Salamanders | | Mink | | Other |
| | Snakes | X | Frogs | | Beaver | | Otter | | |
| | Turtles | | Toads | | Muskrat | | Invertebrates | | |

Presence of Rare, Threatened, or Endangered Species

| | | | | |
|---|---|---|---|---|
| X | No | | Yes | *Species & Evidence* |
| | Undetermined | | | |

Notes (include weather, site access issues, culverts, etc.)

24" metal culvert under Ivison Road . Stream originates from there. Ephemeral drainage through active alfalfa field.

Sketch

# Stream Inventory Data Form

| | | | |
|---|---|---|---|
| Project Name | Excelsior | Date | 06/18/19 |
| Project Number | 328808 | Evaluated By | Weston Hillegas |
| Address | 7589 Caswell Road, Byron, NY 14422 | | |
| USGS Quadrangle(s): | Byron, NY | | |

| | | | |
|---|---|---|---|
| Stream Delineation ID | S-WSH-02 | Stream Name | N/A |
| Stream Location | BYN1012 Parcel | | |
| (e.g. nearest road, structure) | Near Walker's Corner Road (BYN1012 Parcel) | | |

**Stream Classification**

- ___ Perennial
- ___ Intermittent
- X Ephemeral

**Flow**

*Direction* North / NW

- ___ Dry
- X Low
- ___ Moderate
- ___ High
- ___ Flooding

**Presumed Regulatory Authority**

- ___ U.S. Army Corps
- ___ State

**Streambed Substrate**

- ___ Shale
- ___ Bedrock
- ___ Boulders
- ___ Cobble/Gravel
- ___ Other
- ___ Sand
- ___ Silt/Clay
- X Organic

**Channel Gradient**

| | | |
|---|---|---|
| ___ | <2% (<1°) | Gentle |
| X | 2 - 4% (1 - 2°) | Moderate |
| ___ | 4 - 10% (2 - 6°) | Steep |
| ___ | >10% (>6°) | Very Steep |

**Width Measurements (feet)**

- Ordinary High Water Mark: 3.5
- Across Existing Water: 3
- *Flood Plain Present?*
- Yes, Measure Bankfull Width: ___
- No, Measure Top of Bank Width: 4

**Probed Stream Depth**

- X 0 - 6 in.
- ___ 6 - 12 in.
- ___ 12 - 24 in.
- ___ 24 - 36 in.
- ___ >36 in.

**Observed Use**

- ___ Boating
- ___ Swimming
- ___ Fishing
- ___ Drinking
- ___ Other
- ___ Shellfishing
- ___ Irrigation
- X Drainage
- ___ Aquaculture

**Water Quality**

- ___ Clear
- ___ Slightly Turbid
- X Turbid
- ___ Very Turbid

**Bank Height (feet)**

- Left*: 0.5
- Right*: 0.5

** Direction when facing downstream*

**Bank Slope**

| | | Left* | Right* |
|---|---|---|---|
| 0 - 8% (0 - 5°) | Nearly Level to Gently Sloping | | |
| 8 - 15% (5 - 9°) | Moderately Sloping | | |
| 15 - 25% (9 - 14°) | Steeply Sloping | X | X |
| 25 - 35% (14 - 20°) | Steep | | |
| >35% (>20°) | Very Steep | | |

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | | |
| High | X | X |

**Bank Substrate**

- ___ Shale
- ___ Bedrock
- ___ Cobble
- X Silt/Clay
- ___ Other
- ___ Gravel
- ___ Sand
- X Organic
- ___ Riprap

**Aquatic Habitat**

- ___ Aquatic Vegetation
- ___ Overhanging Vegetation
- ___ Undercut Banks
- ___ Gravel Bar
- ___ Other
- ___ Mud Bar
- ___ Sand Bar
- ___ Riffle - Pool
- ___ Plunge Pools

**Estimated Canopy Closure**

- ___ 0 - 10%
- ___ 10 - 20%
- ___ 20 - 30%
- ___ 30 - 40%
- ___ 40 - 50%
- ___ 50 - 60%
- ___ 60 - 70%
- X 70 - 80%
- ___ 80 - 90%
- ___ 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-WSH-02

Adjacent Community Type: UPL, Forest

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 80 | Red Maple, Shagbark Hickory, Hop-Hornbeam, Muscel Wood, Sugar Maple |
| Shrubs | | |
| Herbaceous | 10 | Jewel Weed, May Apple |
| Woody Vines | | |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Waterfowl | | Fish | | Salamanders | | Mink | | Other |
| | Snakes | | Frogs | | Beaver | | Otter | | |
| | Turtles | X | Toads | | Muskrat | | Invertebrates | | |

Presence of Rare, Threatened, or Endangered Species

| | | | | |
|---|---|---|---|---|
| X | No | | Yes | *Species & Evidence* |
| | Undetermined | | | |

Notes (include weather, site access issues, culverts, etc.)

S-WSH-02 originates at field and forest edge and flows north / northwest, then north along forest/field edge and terminates at drain tile inlet.

Sketch

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/19/19
Project Number: 328808
Evaluated By: Weston Hillegas
Address: 5856 Walkers Corner Road, Byron, NY 14422
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-WSH-03
Stream Name: Bigelow Creek (S-JB-12)
Stream Location: Western Edge of parcel BYN1042
(e.g. nearest road, structure): Walkers Corner Road

**Stream Classification**

- [x] Perennial
- [ ] Intermittent
- [ ] Ephemeral

**Flow**

*Direction*: North

- [ ] Dry
- [ ] Low
- [x] Moderate
- [ ] High
- [ ] Flooding

**Presumed Regulatory Authority**

- [x] U.S. Army Corps
- [x] State

**Streambed Substrate**

- [ ] Shale
- [ ] Sand
- [ ] Bedrock
- [x] Silt/Clay
- [x] Boulders
- [ ] Organic
- [x] Cobble/Gravel
- [ ] Other

**Channel Gradient**

- [ ] <2% (<1°) Gentle
- [x] 2 - 4% (1 - 2°) Moderate
- [ ] 4 - 10% (2 - 6°) Steep
- [ ] >10% (>6°) Very Steep

**Width Measurements (feet)**

Ordinary High Water Mark: 20
Across Existing Water: 18
*Flood Plain Present?*
Yes, Measure Bankfull Width:
No, Measure Top of Bank Width: 30

**Probed Stream Depth**

- [ ] 0 - 6 in.
- [ ] 6 - 12 in.
- [ ] 12 - 24 in.
- [x] 24 - 36 in.
- [ ] >36 in.

**Observed Use**

- [ ] Boating
- [ ] Shellfishing
- [ ] Swimming
- [ ] Irrigation
- [ ] Fishing
- [x] Drainage
- [ ] Drinking
- [ ] Aquaculture
- [ ] Other

**Water Quality**

- [ ] Clear
- [x] Slightly Turbid
- [ ] Turbid
- [ ] Very Turbid

**Bank Height (feet)**

Left*:
Right*:

** Direction when facing downstream*

**Bank Slope**

| | | Left* | Right* |
|---|---|---|---|
| 0 - 8% (0 - 5°) | Nearly Level to Gently Sloping | | |
| 8 - 15% (5 - 9°) | Moderately Sloping | x | x |
| 15 - 25% (9 - 14°) | Steeply Sloping | | |
| 25 - 35% (14 - 20°) | Steep | | |
| >35% (>20°) | Very Steep | | |

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | x | x |
| High | | |

**Bank Substrate**

- [ ] Shale
- [x] Gravel
- [ ] Bedrock
- [ ] Sand
- [x] Cobble
- [x] Organic
- [x] Silt/Clay
- [ ] Riprap
- [ ] Other

**Aquatic Habitat**

- [ ] Aquatic Vegetation
- [ ] Mud Bar
- [x] Overhanging Vegetation
- [ ] Sand Bar
- [x] Undercut Banks
- [x] Riffle - Pool
- [ ] Gravel Bar
- [ ] Plunge Pools
- [ ] Other

**Estimated Canopy Closure**

- [ ] 0 - 10%
- [ ] 50 - 60%
- [ ] 10 - 20%
- [ ] 60 - 70%
- [ ] 20 - 30%
- [ ] 70 - 80%
- [x] 30 - 40%
- [ ] 80 - 90%
- [ ] 40 - 50%
- [ ] 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-WSH-03 (S-JB-12)

Adjacent Community Type: UPL, Forest

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 35 | Green Ash, Basswood, Hawthorne, Trembling Aspen |
| Shrubs | 20 | Honeysuckle, Silky Dogwood |
| Herbaceous | 5 | Jewel Weed, Ranunculus (Meadow Buttercup), Orchard Grass |
| Woody Vines | 5 | Vitis sp. , Poison Ivy |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Waterfowl | X | Fish | | Salamanders | | Mink | | Other |
| | Snakes | X | Frogs | | Beaver | | Otter | | |
| | Turtles | | Toads | | Muskrat | | Invertebrates | | |

Presence of Rare, Threatened, or Endangered Species

X No ___ Yes *Species & Evidence*

___ Undetermined

Notes (include weather, site access issues, culverts, etc.)

Wetter than average year. Farm bridge across stream at plot and to the south.

Sketch

# Stream Inventory Data Form

Project Name: Excelsior
Date: 06/19/19
Project Number: 328808
Evaluated By: Weston Hillegas
Address: 5856 Walkers Corner Road, Byron, NY 14422
USGS Quadrangle(s): Byron, NY

Stream Delineation ID: S-WSH-04
Stream Name: Trib. to Bigelow Creek
Stream Location: Western flow towards Bigelow Creek
(e.g. nearest road, structure): Follows northern boundary of parcel indentation.

**Stream Classification**

- [ ] Perennial
- [x] Intermittent
- [ ] Ephemeral

**Flow**

*Direction*: West

- [ ] Dry
- [x] Low
- [ ] Moderate
- [ ] High
- [ ] Flooding

**Presumed Regulatory Authority**

- [x] U.S. Army Corps
- [x] State

**Streambed Substrate**

- [ ] Shale
- [ ] Sand
- [ ] Bedrock
- [x] Silt/Clay
- [ ] Boulders
- [ ] Organic
- [ ] Cobble/Gravel
- [ ] Other

**Channel Gradient**

- [ ] <2% (<1°) Gentle
- [x] 2 - 4% (1 - 2°) Moderate
- [ ] 4 - 10% (2 - 6°) Steep
- [ ] >10% (>6°) Very Steep

**Width Measurements (feet)**

Ordinary High Water Mark: 4
Across Existing Water: 3
*Flood Plain Present?*
Yes, Measure Bankfull Width:
No, Measure Top of Bank Width: 7

**Probed Stream Depth**

- [x] 0 - 6 in.
- [ ] 6 - 12 in.
- [ ] 12 - 24 in.
- [ ] 24 - 36 in.
- [ ] >36 in.

**Observed Use**

- [ ] Boating
- [ ] Shellfishing
- [ ] Swimming
- [ ] Irrigation
- [ ] Fishing
- [x] Drainage
- [ ] Drinking
- [ ] Aquaculture
- [ ] Other

**Water Quality**

- [ ] Clear
- [ ] Slightly Turbid
- [x] Turbid
- [ ] Very Turbid

**Bank Height (feet)**

Left*: 2
Right*: 2.5

** Direction when facing downstream*

**Bank Slope**

| | | Left* | Right* |
|---|---|---|---|
| 0 - 8% (0 - 5°) | Nearly Level to Gently Sloping | | |
| 8 - 15% (5 - 9°) | Moderately Sloping | | |
| 15 - 25% (9 - 14°) | Steeply Sloping | x | x |
| 25 - 35% (14 - 20°) | Steep | | |
| >35% (>20°) | Very Steep | | |

**Bank Erosion Potential**

| | Left* | Right* |
|---|---|---|
| Low | | |
| Moderate | x | x |
| High | | |

**Bank Substrate**

- [ ] Shale
- [ ] Gravel
- [ ] Bedrock
- [ ] Sand
- [ ] Cobble
- [x] Organic
- [x] Silt/Clay
- [ ] Riprap
- [ ] Other

**Aquatic Habitat**

- [ ] Aquatic Vegetation
- [ ] Mud Bar
- [x] Overhanging Vegetation
- [ ] Sand Bar
- [ ] Undercut Banks
- [ ] Riffle - Pool
- [ ] Gravel Bar
- [ ] Plunge Pools
- [ ] Other

**Estimated Canopy Closure**

- [ ] 0 - 10%
- [ ] 50 - 60%
- [ ] 10 - 20%
- [ ] 60 - 70%
- [ ] 20 - 30%
- [x] 70 - 80%
- [ ] 30 - 40%
- [ ] 80 - 90%
- [ ] 40 - 50%
- [ ] 90 - 100%

# Stream Inventory Data Form

Stream Delineation ID S-WSH-04

Adjacent Community Type: UPL, Forest

| | Percent Cover | Dominant Species |
|---|---|---|
| Trees | 80 | Green Ash, Hawthorne, Black Cherry, Slippery Elm |
| Shrubs | 20 | Honeysuckle |
| Herbaceous | 20 | White Smake Root, Jewel Weed, Bedstraw, Garlic Mustard |
| Woody Vines | 5 | Vitis sp. , Poison Ivy |
| Bare Soil/Rock | | *Type* |
| Impervious | | *Type* |

Observed Fauna

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Waterfowl | X | Fish | | Salamanders | | Mink | | Other |
| | Snakes | X | Frogs | | Beaver | | Otter | | |
| | Turtles | | Toads | | Muskrat | | Invertebrates | | |

Presence of Rare, Threatened, or Endangered Species

| | | | | |
|---|---|---|---|---|
| X | No | | Yes | *Species & Evidence* |
| | Undetermined | | | |

Notes (include weather, site access issues, culverts, etc.)

Wetter than average year. Unnamed trib. to Bigelow Creek.

Sketch

# APPENDIX D

# Soil Descriptions

## Soil Descriptions

Alden mucky silt loam (Ad) – This very poorly drained soil makes up approximately 0.8 percent of the Project Site. Alden and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Alden soils can be found in depressions and are developed from a parent material of a silty mantle of local deposition overlying loamy till. This map unit has a hydric rating of 100 percent

Appleton silt loam, 0 to 3 percent slopes (ApA) – This somewhat poorly drained soil makes up approximately 10.6 percent of the project site. Appleton and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Appleton soils can be found on till plains, drumlins, and ridges, and are developed from a parent material of Calcareous loamy lodgment derived from limestone, sandstone and shale. This map unit has a hydric rating of 4 percent.

Appleton silt loam, 3 to 8 percent slopes (ApB) – This somewhat poorly drained soil makes up approximately 10.6 percent of the project site. Appleton and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Appleton soils can be found on till plains, drumlins, and ridges. They are developed from a parent material of Calcareous loamy lodgment derived from limestone, sandstone and shale. This map unit has a hydric rating of 5 percent.

Arkport very fine sandy loam, 1 to 6 percent slopes (ArB) – This well drained soil makes up approximately 0.7 percent of the project site. Arkport and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Arkport soils can be found on deltas and lake plains and are developed from a parent material of glaciofluvial or deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Aurora silt loam, 0 to 3 percent slopes (AuA) – This moderately well drained soil makes up approximately 1.1 percent of the project site. Aurora and similar soils make up 70 percent of the series with the remaining 30 percent being minor components. Aurora soils can be found on till plains, ridges and benches and are developed from loamy till parent material mainly derived from calcareous shale with some limestone and sandstone. This map unit has a hydric rating of 0 percent.

Aurora silt loam, 3 to 8 percent slopes (AuB) – This moderately well drained soil makes up approximately 0.8 percent of the project site. Aurora and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Aurora soils can be found on till plains, ridges and benches and are developed from loamy till parent material mainly derived from calcareous shale with some limestone and sandstone. This map unit has a hydric rating of 0 percent.

Canandaigua silt loam, 0 to 2 percent slopes (CaA) – This poorly drained soil makes up approximately 2.7 percent of the project site. Canandaigua and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Canandaigua soils can be found in depressions and are developed from parent material consisting of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 95 percent.

Canandiagua mucky silt loam, 0 to 2 percent slopes (CbA) – This poorly drained soil makes up approximately 0.1 percent of the project site. Canandaigua and similar soils make up 75 percent

of the series with the remaining 25 percent being minor components. Canandaigua soils can be found in depressions and are developed from parent material consisting of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 95 percent.

Cazenovia silt loam, 0 to 3 percent slopes (CeA) – This moderately well drained soil makes up approximately 0.1 percent of the project site. Cazenovia and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Cazenovia soils can be found in Reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Cazenovia silt loam, 3 to 8 percent slopes (CeB) – This moderately well drained soil makes up approximately 5.1 percent of the project site. Cazenovia and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Cazenovia soils can be found in reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Cazenovia silt loam, 8 to 15 percent slopes (CeC) – This moderately well drained soil makes up approximately 0.5 percent of the project site. Cazenovia and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Cazenovia soils can be found in Reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Cazenovia silty clay loam, 15 to 25 percent slopes, eroded (CgD3) – This moderately well drained soil makes up less than 0.1 percent of the project site. Cazenovia and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Cazenovia soils can be found in Reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Collamer silt loam, 2 to 6 percent slopes (ClB) – This moderately well drained soil makes up approximately 3.1 percent of the project site. Collamer and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Collamer soils can be found in lake plains and are developed from a parent material composed of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 0 percent.

Dunkirk silt loam, 6 to 12 percent slopes (DuC) – This well drained soil makes up less than 0.1 percent of the project site. Dunkirk and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Dunkirk soils can be found on lake planes and are developed from a parent material composed of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 0 percent.

Fonda mucky silt loam (Fo) – This very poorly drained soil makes up approximately 0.1 percent of the project site. Fonda and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Fonda soils can be found in depressions and are developed from a parent material composed of clayey glaciolacustrine deposits. This map unit has a hydric rating of 100 percent.

Fredon gravelly loam, 0 to 3 percent slopes (FpA) – This somewhat poorly drained soil makes up approximately 0.1 percent of the project site. Fredon and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Fredon soils can be found on terraces and valley trains and are developed from a parent material composed of Loamy over sandy and gravelly glaciofluvial deposits. This map unit has a hydric rating of 10 percent.

Galen very fine sandy loam, 2 to 6 percent slopes (GnB) – This moderately well drained soil makes up approximately 0.8 percent of the project site. Galen and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Galen soils can be found in deltas and lake plains and are developed from a parent material composed of deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Gravel Pits (GP) – This unit does not have a drainage class listed, and it makes up less than 0.1 percent of the project site. Gravel pits make up 80 percent of the series with the remaining 20 percent being minor components. This map unit does not have typical location, parent material, or a hydric rating listed.

Hilton Loam, 0 to 3 percent slopes (HlA) – This moderately well drained soil makes up approximately 4.9 percent of the project site. Hilton and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Hilton soils can be found in till plains, ridges, and drumlins and are developed from a parent material composed of calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Hilton Loam, 3 to 8 percent slopes (HlB) – This moderately well drained soil makes up approximately 5.3 percent of the project site. Hilton and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Hilton soils can be found in till plains, ridges, and drumlins and are developed from a parent material composed of calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Lakemont silty clay loam, 0 to 3 percent slopes (La) – This poorly drained soil makes up approximately 1.8 percent of the project site. Lakemont and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lakemont soils can be found in depressions and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 95 percent.

Lamson very fine sandy loam (Ld) – This poorly drained soil makes up approximately 1.3 percent of the project site. Lamson and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Lamson soils can be found in depressions and are developed from a parent material composed of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 90 percent.

Lamson mucky very fine sandy loam (Le) – This very poorly drained soil makes up approximately 0.1 percent of the project site. Lamson and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Lamson soils can be found in depressions and are developed from a parent material composed of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 90 percent.

Lima silt loam, 0 to 3 percent slopes (LmA) – This moderately well drained soil makes up approximately 4.7 percent of the project site. Lima and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lima soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment derived from limestone, sandstone and shale. This map unit has a hydric rating of 1 percent.

Lima silt loam, 3 to 8 percent slopes (LmB) – This moderately well drained soil makes up approximately 12.8 percent of the project site. Lima and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lima soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone and shale. This map unit has a hydric rating of 1 percent.

Lyons soils, 0 to 3 percent slopes (LoA) – This poorly drained soil makes up approximately 0.9 percent of the project site. Lyons and similar soils make up 75 percent of the series, Lyons frequently ponded and similar soils make up 15 percent of the series, with the remaining 10 percent being minor components. Lyons soils can be found in drainageways and depressions and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone and shale. This map unit has a hydric rating of 95 percent.

Madalin silty clay loam, 0 to 3 percent slopes (Ma) – This poorly drained soil makes up less than 0.1 percent of the project site. Madalin and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Madalin soils can be found in depressions and are developed from a parent material composed of brown clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 95 percent.

Minoa very fine sandy loam, 0 to 2 percent slopes (MnA) – This somewhat poorly drained soil makes up approximately 0.3 percent of the project site. Minoa and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Minoa soils can be found in deltas on lake planes and are developed from a parent material composed of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 5 percent.

Newstead silt loam, 0 to 3 percent slopes (NeA) – This somewhat poorly drained soil makes up approximately 0.3 percent of the project site. Newstead and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Newstead soils can be found in benches, till plains, and ridges and are developed from a parent material composed of loamy till derived from sandstone, shale, and granite. This map unit has a hydric rating of 5 percent.

Niagara silt loam, 0 to 2 percent slopes (NgA) – This somewhat poorly drained soil makes up approximately 2 percent of the project site. Niagara and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Niagara soils can be found in lake plains and are developed from a parent material composed of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.

Odessa silt loam, 0 to 3 percent slopes (OdA) – This somewhat poorly drained soil makes up approximately 0.4 percent of the project site. Odessa and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Odessa soils can be found in lake

terraces and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 5 percent.

Odessa loam, 3 to 8 percent slopes (OdB) – This somewhat poorly drained soil makes up approximately 1.1 percent of the project site. Odessa and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Odessa soils can be found in lake terraces and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 4 percent.

Ontario Loam, 0 to 3 percent slopes (OnA) – This well drained soil makes up approximately 3.2 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario loam, 3 to 8 percent slopes (OnB) – This well drained soil makes up approximately 11.8 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario Loam, 8 to 15 percent slopes (OnC) – This well drained soil makes up approximately 0.7 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario loam, 15 to 25 percent slopes (OnD) – This well drained soil makes up less than 0.1 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario loam, 3 to 8 percent slopes, stony (OsB) – This well drained soil makes up approximately 0.8 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ovid silt loam, 0 to 3 percent slopes (OvA) – This somewhat poorly drained soil makes up approximately 6.2 percent of the project site. Ovid and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Ovid soils can be found in reworked lake plains and till plains and are developed from a parent material composed of loamy till with a significant component of reddish shale or reddish glaciolacustrine clays, mixed with limestone and some sandstone. This map unit has a hydric rating of 5 percent.

Ovid silt loam, 3 to 8 percent slopes (OvB) – This somewhat poorly drained soil makes up approximately 9.6 percent of the project site. Ovid and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Ovid soils can be found in reworked lake plains and till plains, and are developed from a parent material composed of loamy

till with a significant component of reddish shale or reddish glaciolacustrine clays, mixed with limestone and some sandstone. This map unit has a hydric rating of 5 percent.

Palms muck (Pd) – This very poorly drained soil makes up approximately 0.2 percent of the project site. Palms drained and similar soils make up 65 percent of the series, Palms undrained and similar soils make up 15 percent of the series with the remaining 20 percent being minor components. Palms drained and Palms undrained soils can be found in swamps and marshes, and are developed from a parent material composed of organic material over loamy glacial drift. This map unit has a hydric rating of 100 percent.

Palmyra gravelly loam, 0 to 3 percent slopes (PhA) – This well drained soil makes up approximately 0.1 percent of the project site. Palmyra and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Palmyra soils can be found in deltas, terraces, and outwash plains, and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. This map unit has a hydric rating of 0 percent.

Palmyra gravelly loam, 3 to 8 percent slopes (PhB) – This well drained soil makes up approximately 0.6 percent of the project site. Palmyra and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Palmyra soils can be found in deltas, terraces, and outwash plains, and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. This map unit has a hydric rating of 0 percent.

Palmyra gravelly loam, 8 to 15 percent slopes (PhC) – This well drained soil makes up approximately 0.4 percent of the project site. Palmyra and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Palmyra soils can be found in deltas, terraces, and outwash plains, and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. This map unit has a hydric rating of 0 percent.

Palmyra and Arkport soils, 15 to 25 percent slopes (PkD) – This well drained soil makes up less than 0.1 percent of the project site. Palmyra and similar soils make up 45 percent of the series, Arkport and similar soils make up 40 percent of the series, with the remaining 15 percent being minor components. Palmyra soils can be found in outwash plains, deltas, and terraces and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. Arkport soils can be found in deltas on lake plains and are developed from parent material composed of glaciofluvial or deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Phelps Gravely Loam, 0 to 3 percent slopes (PsA) – This moderately well drained soil makes up less than 0.1 percent of the project site. Phelps and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Phelps soils can be found in terraces and valley trains and are developed from a parent material composed of loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. This map unit has a hydric rating of 5 percent.

Phelps Gravely Loam, 3 to 8 percent slopes (PsB) – This moderately well drained soil makes up approximately 0.1 percent of the project site. Phelps and similar soils make up 80 percent of the

series with the remaining 20 percent being minor components. Phelps soils can be found in terraces and valley trains and are developed from a parent material composed of loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. This map unit has a hydric rating of 0 percent.

Romulus silt loam, 0 to 3 percent slopes (RsA) – This poorly drained soil makes up approximately 1.1 percent of the project site. Romulus and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Romulus soils can be found in depressions and are developed from a parent material composed of loamy till derived from reddish calcareous shale, limestone, and sandstone, in places intermixed with glaciolacustrine deposits. This map unit has a hydric rating of 85 percent.

Schoharie silty clay loam, 6 to 12 percent slopes (ShC3) – This moderately well drained soil makes up less than 0.1 percent of the project site. Schoharie and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Schoharie soils can be found in lake terraces and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 0 percent.

Teel silt loam (Te) – This moderately well drained soil makes up approximately 0.2 percent of the project site. Teel and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Teel soils can be found in flood plains and are developed from a parent material composed of silty alluvium. This map unit has a hydric rating of 5 percent.

Wakeville silt loam (Wk) – This somewhat poorly drained soil makes up approximately 1.5 percent of the project site. Wakeville and similar soils make up 70 percent of the series with the remaining 30 percent being minor components. Wakeville soils can be found in flood plains and are developed from a parent material composed of silty alluvium washed from areas of glacial drift derived from shale, siltstone, and sandstone with some limestone. This map unit has a hydric rating of 10 percent.

Wassaic silt loam, 2 to 8 percent slopes (WsB) – This well drained soil makes up approximately 0.5 percent of the project site. Wassaic and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Wassaic soils can be found in ridges, benches, and till plains and are developed from a parent material composed of loamy till mainly derived from limestone with varying amounts of sandstone, shale, and crystalline rock. This map unit has a hydric rating of 0 percent.

Wayland soils complex, 0 to 3 percent slopes, frequently flooded (Wy) – This poorly drained soil makes up approximately 0.2 percent of the project site. Wayland and similar soils make up 60 percent of the series, Wayland very poorly drained and similar soils make up 30 percent of the series, and the remaining 20 percent are minor components. Wayland and Wayland very poorly drained soils can be found in flood plains and are developed from a parent material composed of silty and clayey alluvium which are derived in turn from interbedded sedimentary rocks. This map unit has a hydric rating of 90 percent.