

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/19/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CR160b2U
 Investigator(s): KJA/KRG Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Talf Local relief (concave, convex, none): LL
 Slope (%): 0 - 2% Lat.: 46°35'50.2949 Long.: 92°18'38.2006 Datum: WGS84
 Soil Map Unit Name: 303 NWI Classification: _____
 Are climatic/hydrologic conditions of the site typical for this time of the year? (If no, explain in remarks)
 Are vegetation , soil , or hydrology significantly disturbed? Are "normal
 Are vegetation , soil , or hydrology naturally problematic? circumstances" present?
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

| | |
|---|--|
| Hydrophytic vegetation present? <u> N </u> Hydric soil present? <u> N </u> Indicators of wetland hydrology present? <u> N </u> | Is the sampled area within a wetland? <u> N </u> If yes, optional wetland site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.) The upland point is located in a pastured area within an existing pipeline corridor. | |

HYDROLOGY

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

VEGETATION - Use scientific names of plants

Sampling Point: CR160b2U

| Tree Stratum | | | | | Plot Size (30 ft) | | Absolute % Cover | Dominant Species | Indicator Status |
|-----------------------|------------------------|--|--|--|---------------------|-----------|------------------|------------------|------------------|
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| | | | | | | <u>0</u> | = Total Cover | | |
| Sapling/Shrub Stratum | | | | | Plot Size (15 ft) | | Absolute % Cover | Dominant Species | Indicator Status |
| 1 | <i>Cornus alba</i> | | | | | 5 | Y | FACW | |
| 2 | <i>Rosa blanda</i> | | | | | 1 | N | FACU | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| | | | | | | <u>6</u> | = Total Cover | | |
| Herb Stratum | | | | | Plot Size (5 ft) | | Absolute % Cover | Dominant Species | Indicator Status |
| 1 | <i>Poa pratensis</i> | | | | | 80 | Y | FACU | |
| 2 | <i>Cirsium arvense</i> | | | | | 10 | N | FACU | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| | | | | | | <u>90</u> | = Total Cover | | |
| Woody Vine Stratum | | | | | Plot Size (30) | | Absolute % Cover | Dominant Species | Indicator Status |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| | | | | | | <u>0</u> | = Total Cover | | |

| | | | |
|-------------------------|--|-----|-----|
| 50/20 Thresholds | | 20% | 50% |
| Tree Stratum | | 0 | 0 |
| Sapling/Shrub Stratum | | 1 | 3 |
| Herb Stratum | | 18 | 45 |
| Woody Vine Stratum | | 0 | 0 |

| | |
|---|--|
| Dominance Test Worksheet | |
| Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A) | |
| Total Number of Dominant Species Across all Strata: <u>2</u> (B) | |
| Percent of Dominant Species that are OBL, FACW, or FAC: <u>50.00%</u> (A/B) | |

| | |
|--------------------------------------|------------------------------|
| Prevalence Index Worksheet | |
| Total % Cover of: | |
| OBL species | <u>0</u> x 1 = <u>0</u> |
| FACW species | <u>5</u> x 2 = <u>10</u> |
| FAC species | <u>0</u> x 3 = <u>0</u> |
| FACU species | <u>91</u> x 4 = <u>364</u> |
| UPL species | <u>0</u> x 5 = <u>0</u> |
| Column totals | <u>96</u> (A) <u>374</u> (B) |
| Prevalence Index = B/A = <u>3.90</u> | |

| | |
|---|--|
| Hydrophytic Vegetation Indicators: | |
| <input type="checkbox"/> | Rapid test for hydrophytic vegetation |
| <input type="checkbox"/> | Dominance test is >50% |
| <input type="checkbox"/> | Prevalence index is ≤3.0* |
| <input type="checkbox"/> | Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) |
| <input type="checkbox"/> | Problematic hydrophytic vegetation* (explain) |
| *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic | |

| | |
|---|--|
| Definitions of Vegetation Strata: | |
| Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | |
| Sapling/shrub - Woody plants less than 3 in. DBH and greater than 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? | <u>N</u> |
|--|----------|

Remarks: (Include photo numbers here or on a separate sheet)
 The upland pasture is dominated by *Poa pratensis*.

