

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22 **City/County:** Carlton **Sampling Date:** 15-Sep-17
Applicant/Owner: Enbridge **State:** MN **Sampling Point:** u-48n17w8-b2
Investigator(s): SMR **Section, Township, Range:** S. 8 T. 48N R. 17W
Landform (hillslope, terrace, etc.): Mound **Local relief (concave, convex, none):** convex **Slope:** 7.0 % / 4.0 °
Subregion (LRR or MLRA): LRR K **Lat.:** 46 39.3287 **Long.:** -92 31.3831 **Datum:** NAD 83
Soil Map Unit Name: 533 **NWI classification:** N/A

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

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|--|--|
| Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: (Explain alternative procedures here or in a separate report.) | |

Hydrology

| | |
|---|---|
| Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u> | <u>Secondary Indicators (minimum of 2 required)</u> |
| <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 along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <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="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> | Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> |
|--|---|

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

Remarks:

VEGETATION - Use scientific names of plants

Sampling Point: u-48n17w8-b2

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|--|------------------|-------------------------------------|------------------|---|
| Tree Stratum (Plot size: <u>30</u>) | | | | 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>5</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>20.0%</u> (A/B) |
| 1. <u><i>Populus tremuloides</i></u> | 50 | <input checked="" type="checkbox"/> | FACU | |
| 2. _____ | 0 | <input type="checkbox"/> | _____ | |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | |
| 5. _____ | 0 | <input type="checkbox"/> | _____ | |
| 6. _____ | 0 | <input type="checkbox"/> | _____ | |
| 7. _____ | 0 | <input type="checkbox"/> | _____ | |
| 50 = Total Cover | | | | Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>10</u> x 1 = <u>10</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>138</u> x 4 = <u>552</u> UPL species <u>40</u> x 5 = <u>200</u> Column Totals: <u>208</u> (A) <u>812</u> (B) Prevalence Index = B/A = <u>3.904</u> |
| Sapling/Shrub Stratum (Plot size: <u>15</u>) | | | | |
| 1. <u><i>Corylus cornuta</i></u> | 38 | <input checked="" type="checkbox"/> | FACU | |
| 2. <u><i>Betula populifolia</i></u> | 10 | <input checked="" type="checkbox"/> | FAC | |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | |
| 5. _____ | 0 | <input type="checkbox"/> | _____ | |
| 6. _____ | 0 | <input type="checkbox"/> | _____ | |
| 7. _____ | 0 | <input type="checkbox"/> | _____ | |
| 48 = Total Cover | | | | |
| Herb Stratum (Plot size: <u>5</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 ≤3.0¹ <input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. <u><i>Pteridium aquilinum</i></u> | 30 | <input checked="" type="checkbox"/> | FACU | |
| 2. <u><i>Aralia nudicaulis</i></u> | 20 | <input type="checkbox"/> | FACU | |
| 3. <u><i>Eurybia macrophylla</i></u> | 10 | <input type="checkbox"/> | UPL | |
| 4. <u><i>Asarum canadense</i></u> | 30 | <input checked="" type="checkbox"/> | UPL | |
| 5. <u><i>Calamagrostis canadensis</i></u> | 10 | <input type="checkbox"/> | OBL | |
| 6. <u><i>Phalaris arundinacea</i></u> | 10 | <input type="checkbox"/> | FACW | |
| 7. _____ | 0 | <input type="checkbox"/> | _____ | |
| 8. _____ | 0 | <input type="checkbox"/> | _____ | |
| 9. _____ | 0 | <input type="checkbox"/> | _____ | |
| 10. _____ | 0 | <input type="checkbox"/> | _____ | |
| 11. _____ | 0 | <input type="checkbox"/> | _____ | |
| 12. _____ | 0 | <input type="checkbox"/> | _____ | |
| 110 = Total Cover | | | | |
| Woody Vine Stratum (Plot size: <u>30</u>) | | | | Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. |
| 1. _____ | 0 | <input type="checkbox"/> | _____ | |
| 2. _____ | 0 | <input type="checkbox"/> | _____ | |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | |
| 0 = Total Cover | | | | |
| | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: (Include photo numbers here or on a separate sheet.) | | | | |

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

