

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

**Project/Site:** RSA 22 **City/County:** St. Louis **Sampling Date:** 12-Sep-17

**Applicant/Owner:** Enbridge **State:** MN **Sampling Point:** u-51n20w27-c1

**Investigator(s):** PJK **Section, Township, Range:** S. 27 T. 51N R. 20W

**Landform (hillslope, terrace, etc.):** Mound **Local relief (concave, convex, none):** convex **Slope:** 10.5 % / 6.0 °

**Subregion (LRR or MLRA):** LRR K **Lat.:** 46 52.3746 **Long.:** -92 51.8065 **Datum:** NAD 83

**Soil Map Unit Name:** B107A **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**

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

**Hydrology**

|  |  |
|--|--|
| <b>Wetland Hydrology Indicators:</b><br><u>Primary Indicators (minimum of one required; check all that apply)</u><br><input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)<br><input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of 2 required)</u><br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input type="checkbox"/> FAC-neutral Test (D5) |
|--|--|

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): 0

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: u-51n20w27-c1

| Tree Stratum (Plot size: 30 )          | Absolute % Cover | Dominant Species?                   | Indicator Status |  |
|--|------------------|-------------------------------------|------------------|--|
| 1. _____                               | 0                | <input type="checkbox"/>            | _____            |  |
| 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"/>            | _____            |  |
| <b>0 = Total Cover</b>                 |                  |                                     |                  |  |
| Sapling/Shrub Stratum (Plot size: 15 ) | Absolute % Cover | Dominant Species?                   | Indicator Status |  |
| 1. <i>Alnus incana</i>                 | 5                | <input checked="" type="checkbox"/> | FACW             |  |
| 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"/>            | _____            |  |
| <b>5 = Total Cover</b>                 |                  |                                     |                  |  |
| Herb Stratum (Plot size: 5 )           | Absolute % Cover | Dominant Species?                   | Indicator Status |  |
| 1. <i>Tanacetum vulgare</i>            | 15               | <input type="checkbox"/>            | FACU             |  |
| 2. <i>Phalaris arundinacea</i>         | 20               | <input checked="" type="checkbox"/> | FACW             |  |
| 3. <i>Cirsium arvense</i>              | 20               | <input checked="" type="checkbox"/> | FACU             |  |
| 4. <i>Poa pratensis</i>                | 30               | <input checked="" type="checkbox"/> | FACU             |  |
| 5. <i>Solidago canadensis</i>          | 15               | <input type="checkbox"/>            | FACU             |  |
| 6. <i>Solidago gigantea</i>            | 10               | <input type="checkbox"/>            | FACW             |  |
| 7. <i>Phleum pratense</i>              | 5                | <input type="checkbox"/>            | FACU             |  |
| 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"/>            | _____            |  |
| <b>115 = Total Cover</b>               |                  |                                     |                  |  |
| Woody Vine Stratum (Plot size: 30 )    | Absolute % Cover | Dominant Species?                   | Indicator Status |  |
| 1. _____                               | 0                | <input type="checkbox"/>            | _____            |  |
| 2. _____                               | 0                | <input type="checkbox"/>            | _____            |  |
| 3. _____                               | 0                | <input type="checkbox"/>            | _____            |  |
| 4. _____                               | 0                | <input type="checkbox"/>            | _____            |  |
| <b>0 = Total Cover</b>                 |                  |                                     |                  |  |

**Dominance Test worksheet:**

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_

OBL species 0 x 1 = 0

FACW species 35 x 2 = 70

FAC species 0 x 3 = 0

FACU species 85 x 4 = 340

UPL species 0 x 5 = 0

Column Totals: 120 (A) 410 (B)

Prevalence Index = B/A = 3.417

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**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is > 50%

Prevalence Index is ≤ 3.0<sup>1</sup>

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

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

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

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**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.

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**Hydrophytic Vegetation Present?** Yes  No

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.

