

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

**Project/Site:** RSA 22 **City/County:** Aitkin **Sampling Date:** 01-Sep-17  
**Applicant/Owner:** Enbridge **State:** MN **Sampling Point:** w-51n23w30-b1  
**Investigator(s):** SMR **Section, Township, Range:** S. 30 T. 51N R. 23W  
**Landform (hillslope, terrace, etc.):** Lowland **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °  
**Subregion (LRR or MLRA):** LRR K **Lat.:** 46 52.3401 **Long.:** -93 18.2643 **Datum:** NAD 83  
**Soil Map Unit Name:** 454F **NWI classification:** PFO/SSB

**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 checked="" type="radio"/> No <input type="radio"/><br><b>Hydric Soil Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/><br><b>Wetland Hydrology Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/> | <b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="radio"/> No <input 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 checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres 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 checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-neutral Test (D5) |
|---|--|

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): 4

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-51n23w30-b1

|  | Absolute % Cover | Dominant Species?                   | Indicator Status |  |
|--|------------------|-------------------------------------|------------------|--|
| <b>Tree Stratum</b> (Plot size: <u>30</u> )                          |                  |                                     |                  | <p><b>Dominance Test worksheet:</b></p> <p>Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)</p> <hr/> <p><b>Prevalence Index worksheet:</b></p> <p>Total % Cover of: <u>100</u> Multiply by:</p> <p>OBL species <u>100</u> x 1 = <u>100</u></p> <p>FACW species <u>0</u> x 2 = <u>0</u></p> <p>FAC species <u>0</u> x 3 = <u>0</u></p> <p>FACU species <u>0</u> x 4 = <u>0</u></p> <p>UPL species <u>0</u> x 5 = <u>0</u></p> <p>Column Totals: <u>100</u> (A) <u>100</u> (B)</p> <p>Prevalence Index = B/A = <u>1.000</u></p> <hr/> <p><b>Hydrophytic Vegetation Indicators:</b></p> <p><input checked="" type="checkbox"/> <b>Rapid Test for Hydrophytic Vegetation</b></p> <p><input checked="" type="checkbox"/> <b>Dominance Test is &gt; 50%</b></p> <p><input checked="" type="checkbox"/> <b>Prevalence Index is ≤3.0<sup>1</sup></b></p> <p><input type="checkbox"/> <b>Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</b></p> <p><input type="checkbox"/> <b>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</b></p> <p><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p><b>Definitions of Vegetation Strata:</b></p> <p>Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..</p> <p>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vine - All woody vines greater than 3.28 ft in height.</p> <hr/> <p><b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
| 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"/>            | _____            |  |
| 0 = Total Cover  |                  |                                     |                  |  |
| <b>Sapling/Shrub Stratum</b> (Plot size: <u>15</u> )                 |                  |                                     |                  |  |
| 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"/>            | _____            |  |
| 0 = Total Cover  |                  |                                     |                  |  |
| <b>Herb Stratum</b> (Plot size: <u>5</u> )                           |                  |                                     |                  |  |
| 1. <i>Carex lacustris</i>  | 60               | <input checked="" type="checkbox"/> | OBL              |  |
| 2. <i>Iris versicolor</i>  | 10               | <input type="checkbox"/>            | OBL              |  |
| 3. <i>Typha x glauca</i>   | 30               | <input checked="" type="checkbox"/> | OBL              |  |
| 4. _____   | 0                | <input type="checkbox"/>            | _____            |  |
| 5. _____   | 0                | <input type="checkbox"/>            | _____            |  |
| 6. _____   | 0                | <input type="checkbox"/>            | _____            |  |
| 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"/>            | _____            |  |
| 100 = Total Cover  |                  |                                     |                  |  |
| <b>Woody Vine Stratum</b> (Plot size: <u>30</u> )                    |                  |                                     |                  |  |
| 1. _____   | 0                | <input type="checkbox"/>            | _____            |  |
| 2. _____   | 0                | <input type="checkbox"/>            | _____            |  |
| 3. _____   | 0                | <input type="checkbox"/>            | _____            |  |
| 4. _____   | 0                | <input type="checkbox"/>            | _____            |  |
| 0 = Total Cover  |                  |                                     |                  |  |
| <b>Remarks: (Include photo numbers here or on a separate sheet.)</b> |                  |                                     |                  |  |

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

