

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Cass Sampling Date: 9/20/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CAC5001\_540a2W  
 Investigator(s): NTT/BEH Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Side slope Local relief (concave, convex, none): CV  
 Slope (%): 0 - 2% Lat.: 46.790256 Long.: -94.750942 Datum: \_\_\_\_\_  
 Soil Map Unit Name: 540 NWI Classification: PSS1C  
 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>Y</u><br>Hydric soil present? <u>Y</u><br>Indicators of wetland hydrology present? <u>Y</u>                                                                                                                        | <b>Is the sampled area within a wetland?</b> <u>Y</u><br><br>If yes, optional wetland site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>The wetland is a scrub-shrub community with a thick ground layer of reed canary grass. The only willow species present is meadow willow with a few balsam poplar mixed in. |                                                                                                      |

### HYDROLOGY

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| <b>Primary Indicators</b> (minimum of one is required; check all that apply) <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Surface Water (A1)<br/> <input type="checkbox"/> High Water Table (A2)<br/> <input type="checkbox"/> Saturation (A3)<br/> <input type="checkbox"/> Water Marks (B1)<br/> <input type="checkbox"/> Sediment Deposits (B2)<br/> <input type="checkbox"/> Drift Deposits (B3)<br/> <input type="checkbox"/> Algal Mat or Crust (B4)<br/> <input type="checkbox"/> Iron Deposits (B5)<br/> <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br/> <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)         </div> <div style="width: 48%;"> <input type="checkbox"/> Water-Stained Leaves (B9)<br/> <input type="checkbox"/> Aquatic Fauna (B13)<br/> <input type="checkbox"/> Marl Deposits (B15)<br/> <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br/> <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br/> <input type="checkbox"/> Presence of Reduced Iron (C4)<br/> <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br/> <input type="checkbox"/> Thin Muck Surface (C7)<br/> <input type="checkbox"/> Other (Explain in Remarks)         </div> </div> | <b>Secondary Indicators</b> (minimum of two required) <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <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)         </div> <div style="width: 48%;"> <input checked="" type="checkbox"/> FAC-Neutral Test (D5)         </div> </div> |
| <b>Field Observations:</b><br>Surface water present? Yes <input type="checkbox"/> Depth (inches): _____<br>Water table present? Yes <input type="checkbox"/> Depth (inches): _____<br>Saturation present? Yes <input type="checkbox"/> Depth (inches): _____<br>(includes capillary fringe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Indicators of wetland hydrology present?</b> <u>Y</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Remarks:<br>No primary hydrology indicators are present. Wetland hydrology is assumed based on hydrophytic vegetation and landscape position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |