

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

Project/Site: SPP City/County: Clearwater Sampling Date: 6/3/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CLC5078e1W  
 Investigator(s): EAB/RAJ Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none) CC  
 Slope (%): 0 - 2% Lat.: 47.398948 Long.: -95.254273 Datum: \_\_\_\_\_  
 Soil Map Unit Name: 40B 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 circumstances" present?   
 Are vegetation , soil , or hydrology  naturally problematic?   
 (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 lies in a small basin in mesic forest abutting a cleared utility corridor. The community grades from fresh meadow dominated by reed canary into an area with sedges that is more or less shallow marsh. |  |

**HYDROLOGY**

|  |   |  |
|--|---|--|
| Primary Indicators (minimum of one is required; check all that apply)<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 on 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) | Secondary Indicators (minimum of two required)<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:<br>Surface water present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>1</u><br>Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u><br>Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u><br>(includes capillary fringe) |
| Indicators of wetland hydrology present? <u>Y</u>  |   |  |
| Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |   |  |
| Remarks:<br>Surface water present throughout the wetland.  |   |  |

**VEGETATION** - Use scientific names of plants

Sampling Point:

CLC5078e1W

| Tree Stratum        |  |  | Absolute % Cover |  |  | Dominant Species |  |  | Indicator Status |  |  |
|---------------------|--|--|------------------|--|--|------------------|--|--|------------------|--|--|
| Plot Size ( 30 ft ) |  |  |                  |  |  |                  |  |  |                  |  |  |
| 1                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 2                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 3                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 4                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 5                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 6                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 7                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 8                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 9                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 10                  |  |  |                  |  |  |                  |  |  |                  |  |  |
|                     |  |  | 0                |  |  | = Total Cover    |  |  |                  |  |  |

  

| Sapling/Shrub Stratum |                         |  | Absolute % Cover |  |  | Dominant Species |  |  | Indicator Status |  |  |
|-----------------------|-------------------------|--|------------------|--|--|------------------|--|--|------------------|--|--|
| Plot Size ( 15 ft )   |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 1                     | <i>Salix petiolaris</i> |  | 10               |  |  | Y                |  |  | FACW             |  |  |
| 2                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 3                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 4                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 5                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 6                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 7                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 8                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 9                     |                         |  |                  |  |  |                  |  |  |                  |  |  |
| 10                    |                         |  |                  |  |  |                  |  |  |                  |  |  |
|                       |                         |  | 10               |  |  | = Total Cover    |  |  |                  |  |  |

  

| Herb Stratum       |                             |  | Absolute % Cover |  |  | Dominant Species |  |  | Indicator Status |  |  |
|--------------------|-----------------------------|--|------------------|--|--|------------------|--|--|------------------|--|--|
| Plot Size ( 5 ft ) |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 1                  | <i>Phalaris arundinacea</i> |  | 100              |  |  | Y                |  |  | FACW             |  |  |
| 2                  | <i>Equisetum arvense</i>    |  | 1                |  |  | N                |  |  | FAC              |  |  |
| 3                  |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 4                  |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 5                  |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 6                  |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 7                  |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 8                  |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 9                  |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 10                 |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 11                 |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 12                 |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 13                 |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 14                 |                             |  |                  |  |  |                  |  |  |                  |  |  |
| 15                 |                             |  |                  |  |  |                  |  |  |                  |  |  |
|                    |                             |  | 101              |  |  | = Total Cover    |  |  |                  |  |  |

  

| Woody Vine Stratum  |  |  | Absolute % Cover |  |  | Dominant Species |  |  | Indicator Status |  |  |
|---------------------|--|--|------------------|--|--|------------------|--|--|------------------|--|--|
| Plot Size ( 30 ft ) |  |  |                  |  |  |                  |  |  |                  |  |  |
| 1                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 2                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 3                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 4                   |  |  |                  |  |  |                  |  |  |                  |  |  |
| 5                   |  |  |                  |  |  |                  |  |  |                  |  |  |
|                     |  |  | 0                |  |  | = Total Cover    |  |  |                  |  |  |

| 50/20 Thresholds      |     |     |
|-----------------------|-----|-----|
|                       | 20% | 50% |
| Tree Stratum          | 0   | 0   |
| Sapling/Shrub Stratum | 2   | 5   |
| Herb Stratum          | 20  | 51  |
| Woody Vine Stratum    | 0   | 0   |

| Dominance Test Worksheet                                |               |     |
|---|---------------|-----|
| Number of Dominant Species that are OBL, FACW, or FAC:  | 2             | (A) |
| Total Number of Dominant Species Across all Strata:     | 2             | (B) |
| Percent of Dominant Species that are OBL, FACW, or FAC: | 100.00% (A/B) |     |

| Prevalence Index Worksheet |           |         |
|----------------------------|-----------|---------|
| Total % Cover of:          |           |         |
| OBL species                | 0 x 1 =   | 0       |
| FACW species               | 110 x 2 = | 220     |
| FAC species                | 1 x 3 =   | 3       |
| FACU species               | 0 x 4 =   | 0       |
| UPL species                | 0 x 5 =   | 0       |
| Column totals              | 111 (A)   | 223 (B) |
| Prevalence Index = B/A =   | 2.01      |         |

**Hydrophytic Vegetation Indicators:**

Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0\*

Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)

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?** Y

Remarks: (Include photo numbers here or on a separate sheet)

The vegetation at the sample point is dominated by reed canary grass. Sedges are present in the center of the wetland.

