

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

Project/Site: SPP City/County: Carlton Sampling Date: 6/9/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CR103c1U  
 Investigator(s): JRT/KJA Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.) Side slope Local relief (concave, convex, none) CL  
 Slope (%): 0 - 2% Lat.: 46.637495 Long.: -92.457741 Datum: \_\_\_\_\_  
 Soil Map Unit Name: 975C 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  
 Are vegetation , soil , or hydrology  naturally problematic? circumstances" present?   
 (If needed, explain any answers in remarks)

**SUMMARY OF FINDINGS**

|  |  |
|--|--|
| Hydrophytic vegetation present? <u>    N    </u><br>Hydric soil present? <u>    N    </u><br>Indicators of wetland hydrology present? <u>    N    </u>   | <b>Is the sampled area within a wetland?</b> <u>    N    </u><br><br>If yes, optional wetland site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>The upland sample point is located in a mesic forest dominated by sugar maple, paper birch, and some ironwood. The point is within six feet of a driveway area. |  |

**HYDROLOGY**

|   |   |
|---|---|
| Primary Indicators (minimum of one is required; check all that apply)<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 on<br><input type="checkbox"/> Drift Deposits (B3)                      Living Roots (C3)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled<br><input type="checkbox"/> Inundation Visible on Aerial              Soils (C6)<br>Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks)<br>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 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:<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>    N    </u>  |
| Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |   |
| Remarks:<br>No indicators of wetland hydrology were observed.   |   |

**VEGETATION - Use scientific names of plants**

**Sampling Point:**

CR103c1U

| Tree Stratum |                          |  |    | Plot Size ( 30 ft ) |      | Absolute % Cover | Dominant Species | Indicator Status |
|--------------|--------------------------|--|----|---------------------|------|------------------|------------------|------------------|
| 1            | <i>Acer saccharum</i>    |  | 65 | Y                   | FACU |                  |                  |                  |
| 2            | <i>Betula papyrifera</i> |  | 10 | N                   | FACU |                  |                  |                  |
| 3            | <i>Ostrya virginiana</i> |  | 5  | N                   | FACU |                  |                  |                  |
| 4            |                          |  |    |                     |      |                  |                  |                  |
| 5            |                          |  |    |                     |      |                  |                  |                  |
| 6            |                          |  |    |                     |      |                  |                  |                  |
| 7            |                          |  |    |                     |      |                  |                  |                  |
| 8            |                          |  |    |                     |      |                  |                  |                  |
| 9            |                          |  |    |                     |      |                  |                  |                  |
| 10           |                          |  |    |                     |      |                  |                  |                  |
|              |                          |  | 80 | = Total Cover       |      |                  |                  |                  |

  

| Sapling/Shrub Stratum |                            |  |    | Plot Size ( 15 ft ) |      | Absolute % Cover | Dominant Species | Indicator Status |
|-----------------------|----------------------------|--|----|---------------------|------|------------------|------------------|------------------|
| 1                     | <i>Corylus cornuta</i>     |  | 10 | Y                   | FACU |                  |                  |                  |
| 2                     | <i>Prunus virginiana</i>   |  | 10 | Y                   | FACU |                  |                  |                  |
| 3                     | <i>Cornus alternifolia</i> |  | 5  | Y                   | FACU |                  |                  |                  |
| 4                     |                            |  |    |                     |      |                  |                  |                  |
| 5                     |                            |  |    |                     |      |                  |                  |                  |
| 6                     |                            |  |    |                     |      |                  |                  |                  |
| 7                     |                            |  |    |                     |      |                  |                  |                  |
| 8                     |                            |  |    |                     |      |                  |                  |                  |
| 9                     |                            |  |    |                     |      |                  |                  |                  |
| 10                    |                            |  |    |                     |      |                  |                  |                  |
|                       |                            |  | 25 | = Total Cover       |      |                  |                  |                  |

  

| Herb Stratum |                               |  |    | Plot Size ( 5 ft ) |      | Absolute % Cover | Dominant Species | Indicator Status |
|--------------|-------------------------------|--|----|--------------------|------|------------------|------------------|------------------|
| 1            | <i>Eurybia macrophylla</i>    |  | 50 | Y                  | UPL  |                  |                  |                  |
| 2            | <i>Maianthemum canadense</i>  |  | 15 | N                  | FACU |                  |                  |                  |
| 3            | <i>Dryopteris carthusiana</i> |  | 10 | N                  | FACW |                  |                  |                  |
| 4            | <i>Anemone quinquefolia</i>   |  | 5  | N                  | FACU |                  |                  |                  |
| 5            | <i>Uvularia sessilifolia</i>  |  | 5  | N                  | FACU |                  |                  |                  |
| 6            | <i>Solidago flexicaulis</i>   |  | 5  | N                  | FACU |                  |                  |                  |
| 7            |                               |  |    |                    |      |                  |                  |                  |
| 8            |                               |  |    |                    |      |                  |                  |                  |
| 9            |                               |  |    |                    |      |                  |                  |                  |
| 10           |                               |  |    |                    |      |                  |                  |                  |
| 11           |                               |  |    |                    |      |                  |                  |                  |
| 12           |                               |  |    |                    |      |                  |                  |                  |
| 13           |                               |  |    |                    |      |                  |                  |                  |
| 14           |                               |  |    |                    |      |                  |                  |                  |
| 15           |                               |  |    |                    |      |                  |                  |                  |
|              |                               |  | 90 | = Total Cover      |      |                  |                  |                  |

  

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

**50/20 Thresholds**

|                       |     |     |
|-----------------------|-----|-----|
|                       | 20% | 50% |
| Tree Stratum          | 16  | 40  |
| Sapling/Shrub Stratum | 5   | 13  |
| Herb Stratum          | 18  | 45  |
| Woody Vine Stratum    | 0   | 0   |

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**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)

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**Prevalence Index Worksheet**

Total % Cover of:

|                          |                |       |                |
|--------------------------|----------------|-------|----------------|
| OBL species              | <u>0</u>       | x 1 = | <u>0</u>       |
| FACW species             | <u>10</u>      | x 2 = | <u>20</u>      |
| FAC species              | <u>0</u>       | x 3 = | <u>0</u>       |
| FACU species             | <u>135</u>     | x 4 = | <u>540</u>     |
| UPL species              | <u>50</u>      | x 5 = | <u>250</u>     |
| Column totals            | <u>195</u> (A) |       | <u>810</u> (B) |
| Prevalence Index = B/A = |                |       | <u>4.15</u>    |

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**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

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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 (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.

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**Hydrophytic vegetation present?** N

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

The upland point is located within a mesic forest with sugar maple, paper birch, and some ironwood. Big-leaf aster is dominant in the herbaceous layer.

