

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

Project/Site: SPP City/County: Carlton Sampling Date: 5/28/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CRC5097a2W  
 Investigator(s): KRG/NTT Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Talf Local relief (concave, convex, none): CL  
 Slope (%): 0 - 2% Lat.: 46.588472 Long.: -92.666486 Datum: WGS84  
 Soil Map Unit Name: 533 NWI Classification: PFO/SSB  
 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> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The wetland consists of a coniferous swamp community dominated by black spruce and tamarack trees.	

**HYDROLOGY**

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on <input type="checkbox"/> Drift Deposits (B3)                           Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial              Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>3</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (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: Soils were saturated to the surface with the water table 3 inches from soil surface at the sample point. Two primary indicators of wetland hydrology were met.	

**VEGETATION** - Use scientific names of plants

Sampling Point:

CRC5097a2W

Tree Stratum				Plot Size ( 30 ft )		
	Absolute % Cover	Dominant Species	Indicator Status			
1	<u>35</u>	<u>Y</u>	<u>FACW</u>			
2	<u>15</u>	<u>Y</u>	<u>FACW</u>			
3	<u>5</u>	<u>N</u>	<u>FAC</u>			
4						
5						
6						
7						
8						
9						
10						
	<u>55</u>	= Total Cover				

  

Sapling/Shrub Stratum				Plot Size ( 15 ft )		
	Absolute % Cover	Dominant Species	Indicator Status			
1	<u>40</u>	<u>Y</u>	<u>OBL</u>			
2	<u>5</u>	<u>N</u>	<u>FAC</u>			
3						
4						
5						
6						
7						
8						
9						
10						
	<u>45</u>	= Total Cover				

  

Herb Stratum				Plot Size ( 5 ft )		
	Absolute % Cover	Dominant Species	Indicator Status			
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	<u>0</u>	= Total Cover				

  

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

  

50/20 Thresholds			
	20%	50%	
Tree Stratum	<u>11</u>	<u>28</u>	
Sapling/Shrub Stratum	<u>9</u>	<u>23</u>	
Herb Stratum	<u>0</u>	<u>0</u>	
Woody Vine Stratum	<u>0</u>	<u>0</u>	

  

Dominance Test Worksheet			
Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A)			
Total Number of Dominant Species Across all Strata: <u>3</u> (B)			
Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)			

  

Prevalence Index Worksheet			
Total % Cover of:			
OBL species	<u>40</u>	x 1 =	<u>40</u>
FACW species	<u>50</u>	x 2 =	<u>100</u>
FAC species	<u>10</u>	x 3 =	<u>30</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>100</u> (A)		<u>170</u> (B)
Prevalence Index = B/A = <u>1.70</u>			

  

Hydrophytic Vegetation Indicators:			
<input type="checkbox"/> Rapid test for hydrophytic vegetation			
<input checked="" type="checkbox"/> Dominance test is >50%			
<input checked="" type="checkbox"/> Prevalence index is ≤3.0*			
Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)			
<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)			
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			

  

Definitions of Vegetation Strata:			
<b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
<b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
<b>Woody vines</b> - All woody vines greater than 3.28 ft in height.			

  

Hydrophytic vegetation present?	
	<u>Y</u>

  

Remarks: (Include photo numbers here or on a separate sheet)  
 The wetland sample pit is located in part of forested coniferous swamp dominated by black spruce and tamarack with leatherleaf in the shrub layer. The ground layer is covered in sphagnum moss.

