

**WETLAND DETERMINATION DATA FORM - North Central and Northeast Region**

Project/Site: I3\_mainline City/County: Clearwater Sampling Date: 2017-06-10  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-145n36w14-a1  
 Investigator(s): SMR, MRG Section, Township, Range: S14, T145N, R36W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 3-7%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 47.3699153122... Longitude: -95.22210278... Datum: NAD83  
 Soil Map Unit Name: 767 NWI Classification: N/A  
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	<u>Yes</u>	<b>Is the Sampled Area within a Wetland?</b> If yes, optional Wetland Site ID: <u>w-145n36w14-a</u>
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.)		

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	
<u>no</u> Surface Water (A1)	<u>      </u> Surface Soil Cracks (B6)
<u>yes</u> High Water Table (A2)	<u>      </u> Drainage Patterns (B10)
<u>yes</u> Saturation (A3)	<u>      </u> Moss Trim Lines (B16)
<u>      </u> Water Marks (B1)	<u>      </u> Dry-Season Water Table (C2)
<u>      </u> Sediment Deposits (B2)	<u>      </u> Crayfish Burrows (C8)
<u>      </u> Drift Deposits (B3)	<u>      </u> Saturation Visible on Aerial Imagery (C9)
<u>      </u> Algal Mat or Crust (B4)	<u>      </u> Stunted/Stressed Plants (D1)
<u>      </u> Iron Deposits (B5)	<u>yes</u> Geomorphic Position (D2)
<u>      </u> Inundation Visible on Aerial Imagery (B7)	<u>      </u> Shallow Aquitard (D3)
<u>      </u> Sparsely Vegetated Concave Surface (B8)	<u>      </u> Microtopographic Relief (D4)
<u>      </u> Water-Stained Leaves (B9)	<u>yes</u> FAC-Neutral Test (D5)
<u>      </u> Aquatic Fauna (B13)	
<u>      </u> Marl Deposits (B15)	
<u>      </u> Hydrogen Sulfide Odor (C1)	
<u>      </u> Oxidized Rhizospheres on Living Roots (C3)	
<u>      </u> Presence of Reduced Iron (C4)	
<u>      </u> Recent Iron Reduction in Tilled Soils (C6)	
<u>      </u> Thin Muck Surface (C7)	
<u>      </u> Other (Explain in Remarks)	

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>No</u>	Depth (inches)	<u>      </u>
Water Table Present?	<u>Yes</u>	Depth (inches)	<u>18</u>
Saturation Present? (includes capillary fringe)	<u>Yes</u>	Depth (inches)	<u>6</u>

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION** - Use scientific names of plants.

Sampling Point: w-145n36w14-a1

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot Size: <u>30</u> )					
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: $\frac{100}{2}$ (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <span style="float:right">Multiply by:</span> OBL species $\frac{20.00}{20.00} \times 1 = \underline{20}$ FACW species $\frac{75.00}{75.00} \times 2 = \underline{150}$ FACU species $\frac{0.00}{0.00} \times 3 = \underline{0}$ UPL species $\frac{0.00}{0.00} \times 4 = \underline{0}$ Column Totals $\frac{95}{95}$ (A) $\frac{170}{170}$ (B) Prevalence Index = B/A = <u>1.7894736...</u>	
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is $\leq 3.0$ <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <small><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>	
<b>Herb Stratum</b> (Plot Size: <u>5</u> )					
1. <u>Carex gynandra</u>	<u>50.00</u>	<u>Yes</u>			
2. <u>Scirpus cyperinus</u>	<u>20.00</u>	<u>Yes</u>	<u>OBL</u>		
3. <u>Calamagrostis canadensis</u>	<u>15.00</u>	<u>No</u>	<u>FACW</u>		
4. <u>Carex vulpinoides</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>95</u> = Total Cover					
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )					
1. _____	_____	_____	_____	<b>Definitions of Vegetation Strata:</b> <b>Tree</b> - Woody plants 3 in. (.76 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 or equal to 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.	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> <u>Yes</u>	

**Remarks:** (include photo numbers here or on a separate sheet.)

