

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

Project/Site: SPP City/County: Carlton Sampling Date: 2015-06-29  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CR162h2W  
 Investigator(s): ACM/LEB Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): talf Local Relief (concave, convex, none): linear l... Slope (%): 0-2  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.5962107899... Longitude: -92.29643058... Datum: Minnesota State ...  
 Soil Map Unit Name: 303 NWI Classification: \_\_\_\_\_

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>	<u>Yes</u>
Hydric Soil Present?	<u>Yes</u>		
Wetland Hydrology Present?	<u>Yes</u>		
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a fresh wet meadow at the edge of an existing pipeline corridor. The vegetation is dominated by bulrushes, sedges, and fowl bluegrass.			

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<u>Yes</u> <input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted/Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<u>Yes</u> <input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
	<u>Yes</u> <input checked="" type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>No</u> Depth (inches) _____		
Water Table Present?	<u>No</u> Depth (inches) _____		
Saturation Present? (includes capillary fringe)	<u>Yes</u> Depth (inches) <u>0</u>		

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

Remarks:  
 The wetland is in a low spot and has hydrophytic vegetation. The soil is saturated at the surface.

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

Sampling Point: CR162h2W

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot Size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: $\frac{100}{4} = \underline{\hspace{2cm}}$ (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
0 _____ = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <span style="float:right"><u>    </u> Multiply by:</span> OBL species <span style="float:right">75.00 x 1 <u>75</u></span> FACW species <span style="float:right">45.00 x 2 <u>90</u></span> FACU species <span style="float:right">12.00 x 3 <u>0</u></span> UPL species <span style="float:right">0 x 4 <u>0</u></span> Column Totals <span style="float:right"><u>132</u> (A) <u>201</u> (B)</span> Prevalence Index = B/A = $\frac{201}{132} = \underline{1.52272}$
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15 ft</u> )				
1. <u>Cornus alba</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
10 _____ = Total Cover				
<b>Herb Stratum</b> (Plot Size: <u>5 ft</u> )				<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 $\leq 3.0^1$ <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>
1. <u>Poa palustris</u>	<u>25.00</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Scirpus microcarpus</u>	<u>25.00</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Scirpus atrovirens</u>	<u>25.00</u>	<u>Yes</u>	<u>OBL</u>	
4. <u>Carex stipata</u>	<u>15.00</u>	<u>No</u>	<u>OBL</u>	
5. <u>Carex tenera</u>	<u>5.00</u>	<u>No</u>	<u>FAC</u>	
6. <u>Glyceria grandis</u>	<u>5.00</u>	<u>No</u>	<u>OBL</u>	
7. <u>Ranunculus acris</u>	<u>5.00</u>	<u>No</u>	<u>FAC</u>	
8. <u>Lysimachia ciliata</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
9. <u>Juncus effusus</u>	<u>5.00</u>	<u>No</u>	<u>OBL</u>	
10. <u>Impatiens capensis</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
11. <u>Rumex crispus</u>	<u>2.00</u>	<u>No</u>	<u>FAC</u>	
12. <u>Valeriana officinalis</u>	<u>2.00</u>	<u>No</u>	_____	
124 _____ = Total Cover				
<b>Woody Vine Stratum</b> (Plot Size: <u>30 ft</u> )				<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.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 _____ = Total Cover				
<b>Hydrophytic Vegetation Present?</b> _____				
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				
Vegetation is dominated by bulrushes, fowl bluegrass, and sedges.				

