

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

Project/Site: SPP City/County: Cass Sampling Date: 2016-08-02  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-139n25w18-aj1  
 Investigator(s): DPT, MGH Section, Township, Range: S18, T139N, R25W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.8557845009... Longitude: -93.88330296... Datum: NAD83  
 Soil Map Unit Name: 142 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-139n25w18-aj</u>
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Existing forest road, no digging, potential buried utilities.		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<u>yes</u> Surface Water (A1)	<u>      </u> Surface Soil Cracks (B6)
<u>      </u> Water-Stained Leaves (B9)	<u>      </u> Drainage Patterns (B10)
<u>yes</u> High Water Table (A2)	<u>      </u> Moss Trim Lines (B16)
<u>      </u> Aquatic Fauna (B13)	<u>      </u> Dry-Season Water Table (C2)
<u>yes</u> Saturation (A3)	<u>      </u> Crayfish Burrows (C8)
<u>      </u> Marl Deposits (B15)	<u>      </u> Saturation Visible on Aerial Imagery (C9)
<u>      </u> Water Marks (B1)	<u>      </u> Stunted/Stressed Plants (D1)
<u>      </u> Hydrogen Sulfide Odor (C1)	<u>YES</u> Geomorphic Position (D2)
<u>      </u> Oxidized Rhizospheres on Living Roots (C3)	<u>      </u> Shallow Aquitard (D3)
<u>      </u> Presence of Reduced Iron (C4)	<u>      </u> Microtopographic Relief (D4)
<u>      </u> Recent Iron Reduction in Tilled Soils (C6)	<u>YES</u> FAC-Neutral Test (D5)
<u>      </u> Thin Muck Surface (C7)	
<u>      </u> Other (Explain in Remarks)	
<u>      </u> Sparsely Vegetated Concave Surface (B8)	

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches)	<u>6</u>
Water Table Present?	<u>Yes</u>	Depth (inches)	<u>0</u>
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:

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

Sampling Point: w-139n25...

	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>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 _____ = Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b> Total % Cover of: <span style="float:right">Multiply by:</span> OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>100.00</u> x 2 <u>200</u> FACU species <u>0.00</u> x 3 <u>0</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>100</u> (A) <u>200</u> (B) Prevalence Index = B/A = <u>2</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 _____ = Total Cover				
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1. Phalaris arundinacea	100.00	Yes	FACW	<b>Hydrophytic Vegetation Indicators:</b> _____ 1 - Rapid Test for Hydrophytic Vegetation yes _____ 2 - Dominance Test is > 50% yes _____ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> _____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
100 _____ = 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 herbaecous (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. _____	_____	_____	_____	
0 _____ = Total Cover				
				<b>Hydrophytic Vegetation Present?</b> <u>Yes</u>
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				



Site Photograph 1

Sampling Point: w-139n25w18-aj1



Latitude: 46.8557744007994

Cowardin Classification: PEM

Longitude: -93.8833123539517

Circular 39: 2

Direction: north

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

Site Photograph 2

Sampling Point: w-139n25w18-aj1



Latitude: 46.8557743169804

Cowardin Classification: PEM

Longitude: -93.8833126892279

Circular 39: 2

Direction: south

Eggers & Reed: Fresh (Wet) Meadow

Remarks: