

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

Project/Site: SPP City/County: Cass Sampling Date: 2016-07-26  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-138n32w8-aa1  
 Investigator(s): DPT, MGH Section, Township, Range: S8, T138W, R32W  
 Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): VL Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.7893014662... Longitude: -94.76583690... Datum: NAD83  
 Soil Map Unit Name: 564 NWI Classification: PSS1C  
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes  
 Are Vegetation Yes, Soil Yes, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? No  
 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>No</u>	<b>Is the Sampled Area within a Wetland?</b> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Road shoulder, no digging, veg/soils disturbed.		

**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>			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted/Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present? <u>No</u>	Depth (inches) _____	<b>Wetland Hydrology Present?</b> <u>No</u>	
Water Table Present? _____	Depth (inches) _____		
Saturation Present? <u>No</u>	Depth (inches) _____		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No digging, could not confirm/deny water table.			

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

Sampling Point: u-138n32...

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot Size: <u>30</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				<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>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>0</u> = Total Cover <span style="float:right">Multiply by:</span> OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>0.00</u> x 2 <u>0</u> FACU species <u>70.00</u> x 3 <u>280</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>100</u> (A) <u>370</u> (B) Prevalence Index = B/A = <u>3.7</u>
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 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)
1.	25.00	Yes	FACU	
2.	25.00	Yes	FACU	
3.	20.00	Yes	FACU	
4.	20.00	Yes	FAC	
5.	10.00	No	FAC	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
				<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.
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )				
1.				
2.				
3.				
4.				
				<b>Hydrophytic Vegetation Present?</b> <u>No</u>
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				



Site Photograph 1

Sampling Point: u-138n32w8-aa1



Latitude: 46.7893062858347

Cowardin Classification: \_\_\_\_\_

Longitude: -94.7658387479323

Circular 39: \_\_\_\_\_

Direction: south

Eggers & Reed: \_\_\_\_\_

Remarks:  
upland

Site Photograph 2

Sampling Point: u-138n32w8-aa1



Latitude: 46.7893100157816

Cowardin Classification: \_\_\_\_\_

Longitude: -94.7658361495424

Circular 39: \_\_\_\_\_

Direction: west

Eggers & Reed: \_\_\_\_\_

Remarks:  
upland