

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

Project/Site: SPP City/County: Cass Sampling Date: 2016-07-27  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-139n25w19-ab1  
 Investigator(s): DPT, MGH Section, Township, Range: S19, T139N, R25W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.8442272395... Longitude: -93.88964018... Datum: NAD83  
 Soil Map Unit Name: 218 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-139n25w19-ab</u>
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.) No digging, existing road, 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>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>    </u> <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> <u>YES</u> FAC-Neutral Test (D5)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches)	<u>4</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. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1. <u>Alnus incana</u>	<u>40.00</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Salix bebbiana</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Salix petiolaris</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>70</u>	= Total Cover		
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1. <u>Phalaris arundinacea</u>	<u>60.00</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Solidago gigantea</u>	<u>20.00</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Verbena hastata</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	
4. <u>Rubus idaeus</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

---

**Prevalence Index worksheet:**

<b>Total % Cover of:</b>		<b>Multiply by:</b>		
OBL species	<u>10.00</u>	x 1	<u>10</u>	
FACW species	<u>130.00</u>	x 2	<u>260</u>	
FACU species	<u>10.00</u>	x 3	<u>40</u>	
UPL species	<u>0.00</u>	x 4	<u>0</u>	
<b>Column Totals</b>	<u>170</u>	(A)	<u>370</u>	(B)

Prevalence Index = B/A = 2.1764705...

---

**Hydrophytic Vegetation Indicators:**

\_\_\_\_\_ 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.

---

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

---

**Hydrophytic Vegetation Present?** Yes



Site Photograph 1

Sampling Point: w-139n25w19-ab1



Latitude: 46.8442247249622

Cowardin Classification: PSS

Longitude: -93.8896477316449

Circular 39: 6

Direction: south

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:



Latitude: 46.8442225875769

Cowardin Classification: PSS

Longitude: -93.8896537666152

Circular 39: 6

Direction: east

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks: