

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Cass Sampling Date: 2016-08-04

Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-139n25w8-aw1

Investigator(s): DPT, MGH Section, Township, Range: S8, T139N, R25W

Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%

Subregion (LRR or MLRA): _____ Latitude: 46.8697859673... Longitude: -93.86341648... Datum: NAD83

Soil Map Unit Name: 797 NWI Classification: PSSBg

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>	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-139n25w8-aw</u>
Remarks: (Explain alternative procedures here or in a separate report.) Existing forest road, no digging, potential buried utilities.			

HYDROLOGY

Wetland Hydrology Indicators:		<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)	_____ Water-Stained Leaves (B9)	_____ Surface Soil Cracks (B6)
<u>yes</u> High Water Table (A2)	_____ Aquatic Fauna (B13)	_____ Drainage Patterns (B10)
<u>yes</u> Saturation (A3)	_____ Marl Deposits (B15)	_____ Moss Trim Lines (B16)
_____ Water Marks (B1)	_____ Hydrogen Sulfide Odor (C1)	_____ Dry-Season Water Table (C2)
_____ Sediment Deposits (B2)	_____ Oxidized Rhizospheres on Living Roots (C3)	_____ Crayfish Burrows (C8)
_____ Drift Deposits (B3)	_____ Presence of Reduced Iron (C4)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Algal Mat or Crust (B4)	_____ Recent Iron Reduction in Tilled Soils (C6)	_____ Stunted/Stressed Plants (D1)
_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)	<u>YES</u> Geomorphic Position (D2)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)	_____ Shallow Aquitard (D3)
_____ Sparsely Vegetated Concave Surface (B8)		_____ Microtopographic Relief (D4)
		<u>YES</u> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present? <u>Yes</u>
Surface Water Present?	<u>Yes</u> Depth (inches) <u>5</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	
Tree Stratum (Plot Size: <u>30</u>)				
1. <u>Betula papyrifera</u>	<u>5.00</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</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>75</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>5</u> = Total Cover				
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				
1. <u>Alnus incana</u>	<u>50.00</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>60.00</u> x 1 <u>60</u> FACW species <u>105.00</u> x 2 <u>210</u> FACU species <u>10.00</u> x 3 <u>40</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>175</u> (A) <u>310</u> (B) Prevalence Index = B/A = <u>1.7714285...</u>
2. <u>Salix bebbiana</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	
3. <u>Fraxinus nigra</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
4. <u>Betula papyrifera</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>70</u> = Total Cover				
Herb Stratum (Plot Size: <u>5</u>)				
1. <u>Carex lacustris</u>	<u>60.00</u>	<u>Yes</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>yes</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Calamagrostis canadensis</u>	<u>30.00</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Phalaris arundinacea</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	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 herbaecous (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.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
				Hydrophytic Vegetation Present? <u>Yes</u>
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: w-139n25w8-aw1



Latitude: 46.8697902840067

Cowardin Classification: PSS

Longitude: -93.8634141349176

Circular 39: 6

Direction: south

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:



Latitude: 46.8697911641066

Cowardin Classification: PSS

Longitude: -93.8634134643654

Circular 39: 6

Direction: north

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:

Empty rectangular box for remarks.