

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Cass Sampling Date: 2016-08-03
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-139n25w4-aa2
 Investigator(s): DPT, MGH Section, Township, Range: S4, T139N, R25W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%
 Subregion (LRR or MLRA): _____ Latitude: 46.8766010832... Longitude: -93.84117593... Datum: NAD83
 Soil Map Unit Name: 146B NWI Classification: PFO1B
 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? If yes, optional Wetland Site ID: <u>w-139n25w4-aa</u>
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.)		

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<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)
<input 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)	<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)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present? <u>No</u>	Depth (inches) _____		
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 verify water table.

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>Fraxinus nigra</u>	<u>70.00</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>70</u> = Total Cover				
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				
1. <u>Alnus incana</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>10.00</u> x 1 <u>10</u> FACW species <u>160.00</u> x 2 <u>320</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>190</u> (A) <u>390</u> (B) Prevalence Index = B/A = <u>2.0526315...</u>
2. <u>Fraxinus nigra</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>20</u> = Total Cover				
Herb Stratum (Plot Size: <u>5</u>)				
1. <u>Osmundastrum cinnamomeum</u>	<u>30.00</u>	<u>Yes</u>	<u>FACW</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>Equisetum arvense</u>	<u>20.00</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Onoclea sensibilis</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	
4. <u>Impatiens capensis</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	
5. <u>Carex lacustris</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>	
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-139n25w4-aa2



Latitude: 46.8766007060622

Cowardin Classification: PFO

Longitude: -93.8411777839939

Circular 39: 7

Direction: south

Eggers & Reed: Hardwood Swamp/Coniferous Swamp

Remarks:

Site Photograph 2

Sampling Point: w-139n25w4-aa2



Latitude: 46.8766012927954

Cowardin Classification: PFO

Longitude: -93.8411783707271

Circular 39: 7

Direction: west

Eggers & Reed: Hardwood Swamp/Coniferous Swamp

Remarks: