

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-ar1

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: 46.8681789888... Longitude: -93.87261612... 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>	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-ar</u>
Remarks: (Explain alternative procedures here or in a separate report.) Existing forest road, no digging, potential buried utilities.			

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>yes</u> Surface Water (A1)	_____ Surface Soil Cracks (B6)
<u>yes</u> High Water Table (A2)	_____ Drainage Patterns (B10)
<u>yes</u> Saturation (A3)	_____ Moss Trim Lines (B16)
_____ Water Marks (B1)	_____ Dry-Season Water Table (C2)
_____ Sediment Deposits (B2)	_____ Crayfish Burrows (C8)
_____ Drift Deposits (B3)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Algal Mat or Crust (B4)	_____ Stunted/Stressed Plants (D1)
_____ Iron Deposits (B5)	<u>YES</u> Geomorphic Position (D2)
_____ Inundation Visible on Aerial Imagery (B7)	_____ 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>3</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. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Herb Stratum (Plot Size: <u>5</u>)				
1. <i>Phalaris arundinacea</i>	45.00	Yes	FACW	
2. <i>Impatiens capensis</i>	25.00	Yes	FACW	
3. <i>Scirpus cyperinus</i>	15.00	No	OBL	
4. <i>Calamagrostis canadensis</i>	10.00	No	FACW	
5. <i>Cicuta maculata</i>	5.00	No	OBL	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u> = Total Cover			
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:		
OBL species	<u>20.00</u>	x 1	<u>20</u>	
FACW species	<u>80.00</u>	x 2	<u>160</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>180</u> (B)	

Prevalence Index = B/A = 1.8

Hydrophytic Vegetation Indicators:

_____ 1 - Rapid Test for Hydrophytic Vegetation

yes 2 - Dominance Test is > 50%

yes 3 - Prevalence Index is ≤ 3.0¹

_____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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-139n25w8-ar1



Latitude: 46.8681767257367

Cowardin Classification: PEM

Longitude: -93.8726318814735

Circular 39: 2

Direction: north

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

Site Photograph 2

Sampling Point: w-139n25w8-ar1



Latitude: 46.8681744207133

Cowardin Classification: PEM

Longitude: -93.8726331387589

Circular 39: 2

Direction: south

Eggers & Reed: Fresh (Wet) Meadow

Remarks: