

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 2016-07-18

Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-47n18w2-ac1

Investigator(s): ZCW Section, Township, Range: S 2, T 47N, R 18W

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

Subregion (LRR or MLRA): _____ Latitude: 46.5869408240... Longitude: -92.57783588... Datum: NAD83

Soil Map Unit Name: 188E NWI Classification: PSSB

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-47n18w2-ac</u>
Remarks: (Explain alternative procedures here or in a separate report.)			

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)	_____ Surface Soil Cracks (B6)
_____ High Water Table (A2)	_____ Drainage Patterns (B10)
_____ 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>4</u>		
Water Table Present? <u>Yes</u>	Depth (inches) _____		
Saturation Present? <u>Yes</u>	Depth (inches) _____		
(includes capillary fringe)			

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: w-47n18w...

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>50.00</u> x 1 <u>50</u> FACW species <u>30.00</u> x 2 <u>60</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>80</u> (A) <u>110</u> (B) Prevalence Index = B/A = <u>1.375</u>
Herb Stratum (Plot Size: <u>5</u>)				
1. <u>Carex lacustris</u>	<u>40.00</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Calamagrostis canadensis</u>	<u>30.00</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Iris versicolor</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
				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)
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
				Problematic Hydrophytic Vegetation¹ (Explain) _____ <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: w-47n18w2-ac1



Latitude: 46.5870119864555

Cowardin Classification: PEM

Longitude: -92.5779353734968

Circular 39: 2

Direction: West

Eggers & Reed: Sedge Meadow

Remarks:

Site Photograph 2

Sampling Point: w-47n18w2-ac1



Latitude: 46.5870117769079

Cowardin Classification: PEM

Longitude: -92.5779345353065

Circular 39: 2

Direction: South

Eggers & Reed: Sedge Meadow

Remarks:

Empty rectangular box for remarks.