

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

Project/Site: SPP City/County: Clearwater Sampling Date: 2016-07-21

Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-144n36w24-aa1

Investigator(s): ZCW Section, Township, Range: S 24, T 144N, R 36W

Landform (hillslope, terrace, etc.): Shoulder Local Relief (concave, convex, none): VL Slope (%): 3-7%

Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 47.2825440718... Longitude: -95.18665680... Datum: NAD83

Soil Map Unit Name: 267B 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>No</u>	<b>Is the Sampled Area</b>
Hydric Soil Present?	<u>No</u>	<b>within a Wetland?</b> <span style="float:right;"><u>No</u></span>
Wetland Hydrology Present?	<u>No</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)		

**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>	
<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 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 type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b>	
Surface Water Present? <u>No</u> Depth (inches) _____	<b>Wetland Hydrology Present?</b> <u>No</u>
Water Table Present? <u>No</u> 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:

**VEGETATION - Use scientific names of plants.**

Sampling Point: u-144n36...

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot Size: <u>30</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>0</u> = Total Cover <span style="float:right">Multiply by:</span> OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>0.00</u> x 2 <u>0</u> FACU species <u>85.00</u> x 3 <u>340</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>90</u> (A) <u>355</u> (B) Prevalence Index = B/A = <u>3.9444444...</u>
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <small><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>
1.	Phleum pratense	35.00	Yes	FACU
2.	Pteridium aquilinum	15.00	No	FACU
3.	Solidago canadensis	15.00	No	FACU
4.	Trifolium repens	10.00	No	FACU
5.	Poa pratensis	10.00	No	FACU
6.	Plantago major	5.00	No	FAC
7.				
8.				
9.				
10.				
11.				
12.				
				<b>Definitions of Vegetation Strata:</b> <b>Tree</b> - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> - All herbaecous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )				
1.				
2.				
3.				
4.				
				<b>Hydrophytic Vegetation Present?</b> <u>No</u>
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				



Site Photograph 1

Sampling Point: u-144n36w24-aa1



Latitude: 47.2825261764669

Cowardin Classification: \_\_\_\_\_

Longitude: -95.1866903343193

Circular 39: \_\_\_\_\_

Direction: West

Eggers & Reed: \_\_\_\_\_

Remarks:

Empty rectangular box for recording remarks.

Site Photograph 2

Sampling Point: u-144n36w24-aa1



Latitude: 47.2825283976712

Cowardin Classification: \_\_\_\_\_

Longitude: -95.1866739896081

Circular 39: \_\_\_\_\_

Direction: East

Eggers & Reed: \_\_\_\_\_

Remarks: