

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

Project/Site: L3R City/County: Clearwater Sampling Date: 2016-06-20

Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-149n37w28-aa1

Investigator(s): ZCW/DPT Section, Township, Range: S28, T149N, R37W

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

Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 47.6884687878... Longitude: -95.40754954... Datum: NAD83

Soil Map Unit Name: 765 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>	<b>Is the Sampled Area within a Wetland?</b>	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-149n37w28-aa</u>
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>	
<u>yes</u> Surface Water (A1)	<u>      </u> Surface Soil Cracks (B6)
<u>      </u> High Water Table (A2)	<u>      </u> Drainage Patterns (B10)
<u>      </u> Saturation (A3)	<u>      </u> Moss Trim Lines (B16)
<u>      </u> Water Marks (B1)	<u>      </u> Dry-Season Water Table (C2)
<u>      </u> Sediment Deposits (B2)	<u>      </u> Crayfish Burrows (C8)
<u>      </u> Drift Deposits (B3)	<u>      </u> Saturation Visible on Aerial Imagery (C9)
<u>      </u> Algal Mat or Crust (B4)	<u>      </u> Stunted/Stressed Plants (D1)
<u>      </u> Iron Deposits (B5)	<u>      </u> <u>YES</u> Geomorphic Position (D2)
<u>      </u> Inundation Visible on Aerial Imagery (B7)	<u>      </u> Shallow Aquitard (D3)
<u>      </u> Sparsely Vegetated Concave Surface (B8)	<u>      </u> Microtopographic Relief (D4)
	<u>      </u> <u>YES</u> FAC-Neutral Test (D5)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches) <u>2</u>	
Water Table Present?	<u>No</u>	Depth (inches) _____	
Saturation Present? (includes capillary fringe)	<u>No</u>	Depth (inches) _____	

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

Remarks:

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

Sampling Point: w-149n37...

	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>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)
<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
				<b>Multiply by:</b>
				OBL species <u>40.00</u> x 1 <u>40</u>
				FACW species <u>50.00</u> x 2 <u>100</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>90</u> (A) <u>140</u> (B)
				Prevalence Index = B/A = <u>1.555555...</u>
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1. <u>Phalaris arundinacea</u>	<u>50.00</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Scirpus atrovirens</u>	<u>30.00</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Juncus canadensis</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
				<b>Hydrophytic Vegetation Indicators:</b>
				_____ 1 - Rapid Test for Hydrophytic Vegetation
				<u>yes</u> 2 - Dominance Test is > 50%
				<u>yes</u> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
				_____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
				<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 herbaeceous (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>Hydrophytic Vegetation Present?</b> <u>Yes</u>
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				



Site Photograph 1

Sampling Point: w-149n37w28-aa1



Latitude: 47.6884996332672

Cowardin Classification: PEM

Longitude: -95.4075320252174

Circular 39: 2

Direction: West

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

Site Photograph 2

Sampling Point: w-149n37w28-aa1



Latitude: 47.6885005971861

Cowardin Classification: PEM

Longitude: -95.4075318575794

Circular 39: 2

Direction: South

Eggers & Reed: Fresh (Wet) Meadow

Remarks: