

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-149n37w33-aa1
 Investigator(s): DPT, ZCW Section, Township, Range: S33, T149N, R37W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%
 Subregion (LRR or MLRA): _____ Latitude: 47.6876884745... Longitude: -95.38814443... Datum: NAD83
 Soil Map Unit Name: 1699A 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-149n37w33-aa</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>	
<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)

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches) <u>1</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:
 No digging, ditch, could not verify sat/water table. Observed surface water.

VEGETATION - Use scientific names of plants.

Sampling Point: w-149n37...

	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: <u>0</u> = Total Cover Multiply by: OBL species <u>30.00</u> x 1 <u>30</u> FACW species <u>50.00</u> x 2 <u>100</u> FACU species <u>5.00</u> x 3 <u>20</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>100</u> (A) <u>195</u> (B) Prevalence Index = B/A = <u>1.95</u>
Herb Stratum (Plot Size: <u>5</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> yes 2 - Dominance Test is > 50% <input type="checkbox"/> yes 3 - Prevalence Index is ≤ 3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
1.	Phalaris arundinacea	50.00	Yes	FACW
2.	Scirpus atrovirens	30.00	Yes	OBL
3.	Equisetum arvense	15.00	No	FAC
4.	Toxicodendron radicans	5.00	No	FACU
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
				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.
Woody Vine Stratum (Plot Size: <u>30</u>)				
1.				
2.				
3.				
4.				
				Hydrophytic Vegetation Present? <u>Yes</u>
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: w-149n37w33-aa1



Latitude: 47.6876805117798

Cowardin Classification: PEM

Longitude: -95.3881433420772

Circular 39: 2

Direction: West

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

Site Photograph 2

Sampling Point: w-149n37w33-aa1



Latitude: 47.6876782067564

Cowardin Classification: PEM

Longitude: -95.3881462757433

Circular 39: 2

Direction: East

Eggers & Reed: Fresh (Wet) Meadow

Remarks: