

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: u-149n37w33-ac1
 Investigator(s): DPT, ZCW Section, Township, Range: S33, T149N, R33W
 Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): VV Slope (%): 3-7%
 Subregion (LRR or MLRA): _____ Latitude: 47.6767265797... Longitude: -95.39656740... Datum: NAD83
 Soil Map Unit Name: 38C2 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 Yes, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? No
 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>	Is the Sampled Area within a Wetland? <u>No</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Active cattle pasture		

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>	
<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)	

Field Observations:		Wetland Hydrology Present?	<u>No</u>
Surface Water Present?	<u>No</u>	Depth (inches)	_____
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: u-149n37...

	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>Poa pratensis</i>	30.00	Yes	FACU	
2. <i>Artemisia absinthium</i>	20.00	Yes		
3. <i>Taraxacum officinale</i>	20.00	Yes	FACU	
4. <i>Trifolium repens</i>	20.00	Yes	FACU	
5. <i>Trifolium pratense</i>	10.00	No	FACU	
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: 0 (A)
 Total Number of Dominant Species Across All Strata: 4 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:
 Total % Cover of: Multiply by:
 OBL species 0.00 x 1 0
 FACW species 0.00 x 2 0
 FACU species 80.00 x 3 320
 UPL species 20.00 x 4 100
 Column Totals 100 (A) 420 (B)
 Prevalence Index = B/A = 4.2

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
no 2 - Dominance Test is > 50%
no 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 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.

Hydrophytic Vegetation Present? No

Site Photograph 1

Sampling Point: u-149n37w33-ac1



Latitude: 47.676735715985

Cowardin Classification: _____

Longitude: -95.3965834156567

Circular 39: _____

Direction: east

Eggers & Reed: _____

Remarks:
upland

Site Photograph 2

Sampling Point: u-149n37w33-ac1



Latitude: 47.6767356740755

Cowardin Classification: _____

Longitude: -95.3965833318377

Circular 39: _____

Direction: west

Eggers & Reed: _____

Remarks:
upland