

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2016-06-21
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-149n38w17-aa1
 Investigator(s): DPT, ZCW Section, Township, Range: S17, T149N, R38W
 Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): VL Slope (%): 3-7%
 Subregion (LRR or MLRA): _____ Latitude: 47.7175456937... Longitude: -95.55473282... Datum: NAD83
 Soil Map Unit Name: 582 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>	Is the Sampled Area
Hydric Soil Present?	<u>Yes</u>	within a Wetland? <u>No</u>
Wetland Hydrology Present?	<u>No</u>	If yes, optional Wetland Site ID: _____
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>	
<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:	
Surface Water Present? <u>No</u> Depth (inches) _____	Wetland Hydrology Present? <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-149n38...

	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>0</u> (A)
				Total Number of Dominant
				Species Across All Strata: <u>3</u> (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: <u>0</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>0.00</u> x 1 <u>0</u>
				FACW species <u>0.00</u> x 2 <u>0</u>
				FACU species <u>55.00</u> x 3 <u>220</u>
				UPL species <u>45.00</u> x 4 <u>225</u>
				Column Totals <u>100</u> (A) <u>445</u> (B)
				Prevalence Index = B/A = <u>4.45</u>
Herb Stratum (Plot Size: <u>5</u>)				
1. Bromus inermis	35.00	Yes	UPL	
2. Solidago canadensis	25.00	Yes	FACU	
3. Achillea millefolium	20.00	Yes	FACU	
4. Asclepias syriaca	10.00	No	UPL	
5. Taraxacum officinale	10.00	No	FACU	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
				Hydrophytic Vegetation Indicators:
				_____ 1 - Rapid Test for Hydrophytic Vegetation
				no _____ 2 - Dominance Test is > 50%
				no _____ 3 - Prevalence Index is ≤ 3.0 ¹
				_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
				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? <u>No</u>
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: u-149n38w17-aa1



Latitude: 47.7175532374975

Cowardin Classification: _____

Longitude: -95.5547380262013

Circular 39: _____

Direction: west

Eggers & Reed: _____

Remarks:
upland

Site Photograph 2

Sampling Point: u-149n38w17-aa1



Latitude: 47.7175672771854

Cowardin Classification: _____

Longitude: -95.55474246861

Circular 39: _____

Direction: south

Eggers & Reed: _____

Remarks:
upland