

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 6/2/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CLC5077b1W
 Investigator(s): EAB/RAJ Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none) CC
 Slope (%): 0 - 2% Lat.: 47.403361 Long.: -95.259028 Datum: _____
 Soil Map Unit Name: 346 NWI Classification: _____
 Are climatic/hydrologic conditions of the site typical for this time of the year? (If no, explain in remarks)
 Are vegetation , soil , or hydrology significantly disturbed? Are "normal circumstances" present?
 Are vegetation , soil , or hydrology naturally problematic?
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a sedge meadow within a grazed field and has been trampled into hummocks and hollows by cattle. It is very close to but separated from CLC5077aa1W.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface water present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>3</u> Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	Indicators of wetland hydrology present? <u>Y</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Surface water is present at the sample point and throughout much of the wetland.		

VEGETATION - Use scientific names of plants

Sampling Point:

CLC5077b1W

Tree Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (30 ft)											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
			0			= Total Cover					

Sapling/Shrub Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (15 ft)											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
			0			= Total Cover					

Herb Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (5 ft)											
1	<i>Carex lacustris</i>		20		Y	OBL					
2	<i>Carex vulpinoidea</i>		20		Y	OBL					
3	<i>Carex utriculata</i>		20		Y	OBL					
4	<i>Scirpus microcarpus</i>		15		Y	OBL					
5	<i>Alopecurus pratensis</i>		15		Y	FAC					
6	<i>Phalaris arundinacea</i>		15		Y	FACW					
7	<i>Poa pratensis</i>		5		N	FACU					
8	<i>Taraxacum officinale</i>		5		N	FACU					
9	<i>Geum aleppicum</i>		5		N	FAC					
10	<i>Carex pellita</i>		5		N	OBL					
11											
12											
13											
14											
15											
			125			= Total Cover					

Woody Vine Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (30 ft)											
1											
2											
3											
4											
5											
			0			= Total Cover					

50/20 Thresholds			20%		50%	
Tree Stratum			0		0	
Sapling/Shrub Stratum			0		0	
Herb Stratum			25		63	
Woody Vine Stratum			0		0	

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>6</u> (A)		
Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)		

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	<u>80</u> x 1 =	<u>80</u>
FACW species	<u>15</u> x 2 =	<u>30</u>
FAC species	<u>20</u> x 3 =	<u>60</u>
FACU species	<u>10</u> x 4 =	<u>40</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>125</u> (A)	<u>210</u> (B)
Prevalence Index = B/A =	<u>1.68</u>	

Hydrophytic Vegetation Indicators:		
<input type="checkbox"/> Rapid test for hydrophytic vegetation		
<input checked="" type="checkbox"/> Dominance test is >50%		
<input checked="" type="checkbox"/> Prevalence index is ≤3.0*		
<input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)		
<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)		
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		

Definitions of Vegetation Strata:		
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
Herb - All herbaceous (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>Y</u>	

Remarks: (Include photo numbers here or on a separate sheet)

The community is dominated by a variety of sedges, along with reed canary grass and field meadow-foxtail. Some upland species are present on the hummocks.

