

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2015-07-10
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CLC5004u1W
 Investigator(s): BJC/LEB Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): Concave Slope (%): 0-2%
 Subregion (LRR or MLRA): LRR K Latitude: 47.6674248464... Longitude: -95.40624431... Datum: Minnesota State ...
 Soil Map Unit Name: 718C, Naytahwaush loam, 8 to 15 percent slopes NWI Classification: _____

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?	<u>Yes</u>
Hydric Soil Present?	<u>Yes</u>		
Wetland Hydrology Present?	<u>Yes</u>		
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a hardwood swamp fringe dominated by black ash, lake sedge, and retrorse sedge. It is located in a depression surrounding a fresh wet ...			

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) <input 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)	<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/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? <u>No</u> Depth (inches) _____ Water Table Present? <u>Yes</u> Depth (inches) <u>6</u> Saturation Present? <u>Yes</u> Depth (inches) <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? <u>Yes</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 The wetland shows signs of periodic inundation.

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5004u...

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot Size: <u>30 ft</u>)					
1. <u>Fraxinus nigra</u>	70.00	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: $\frac{100}{3}$ (A/B)	
2. <u>Populus tremuloides</u>	10.00	No	FACU		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
80 = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75.00 x 1 <u>75</u> FACW species 95.00 x 2 <u>190</u> FACU species 15.00 x 3 <u>0</u> UPL species 0.00 x 4 <u>0</u> Column Totals 185 (A) 310 (B) Prevalence Index = B/A = <u>1.6756756...</u>	
Sapling/Shrub Stratum (Plot Size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
0 = Total Cover				Hydrophytic Vegetation Indicators: yes <u>1</u> - Rapid Test for Hydrophytic Vegetation yes <u>2</u> - Dominance Test is > 50% yes <u>3</u> - Prevalence Index is $\leq 3.0^1$ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>	
Herb Stratum (Plot Size: <u>5 ft</u>)					
1. <u>Carex lacustris</u>	30.00	Yes	OBL		
2. <u>Carex retrorsa</u>	25.00	Yes	OBL		
3. <u>Phalaris arundinacea</u>	15.00	No	FACW		
4. <u>Lycopus uniflorus</u>	10.00	No	OBL		
5. <u>Impatiens capensis</u>	10.00	No	FACW		
6. <u>Scutellaria galericulata</u>	10.00	No	OBL		
7. <u>Rubus idaeus</u>	5.00	No	FACU		
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
105 = Total Cover				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 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.	
Woody Vine Stratum (Plot Size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
0 = Total Cover				Hydrophytic Vegetation Present? _____	
Remarks: (include photo numbers here or on a separate sheet.)					
The wetland sample point is dominated by black ash, lake sedge, and retrorse sedge.					

