

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: CLC5005g1U
 Investigator(s): ACM/LEB Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ rise _____ Local Relief (concave, convex, none): _____ Conve... _____ Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 47.666323 Longitude: -95.406253 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>No</u>	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	<u>No</u>		<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.) The upland is a mesic hardwood forest dominated by red maple, red oak, and American elm trees and seedlings.			

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"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input 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 type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:	Wetland Hydrology Present?
Surface Water Present? <u>No</u> Depth (inches) _____	<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:
 No indicators of wetland hydrology were observed.

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5005g1U

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30 ft</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>33.3333333333...</u> (A/B)
1. <u>Acer saccharum</u>	<u>30.00</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Ulmus americana</u>	<u>25.00</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Populus tremuloides</u>	<u>20.00</u>	<u>Yes</u>	<u>FACU</u>	
4. _____	<u>15.00</u>	<u>No</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. <u>Quercus rubra</u>	_____	_____	_____	
7. _____	_____	_____	_____	
<u>90</u> = Total Cover				
Sapling/Shrub Stratum (Plot Size: <u>15 ft</u>)				
1. <u>Acer saccharum</u>	<u>35.00</u>	<u>Yes</u>	<u>FACU</u>	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>40.00</u> x 2 <u>80</u> FACU species <u>2.00</u> x 3 <u>756</u> UPL species <u>2.00</u> x 4 <u>10</u> Column Totals <u>233</u> (A) <u>852</u> (B) Prevalence Index = B/A = <u>3.6566523...</u>
2. <u>Ulmus americana</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
3. <u>Rhamnus cathartica</u>	<u>2.00</u>	<u>No</u>	<u>FAC</u>	
4. <u>Populus tremuloides</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>44</u> = Total Cover				
Herb Stratum (Plot Size: <u>5 ft</u>)				
1. <u>Acer saccharum</u>	<u>70.00</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Ulmus americana</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	
3. <u>Quercus rubra</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>	
4. <u>Tilia americana</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
5. <u>Fragaria virginiana</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>	
6. <u>Carex pensylvanica</u>	<u>2.00</u>	<u>No</u>	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>99</u> = Total Cover				
Woody Vine Stratum (Plot Size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Remarks: (include photo numbers here or on a separate sheet.)				
The vegetation is dominated by sugar maple, American elm, and red oak trees and seedlings.				

