

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2015-07-07
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CLC5103a1W
 Investigator(s): ACM/LEB Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): Conca... Slope (%): 3-7
 Subregion (LRR or MLRA): _____ Latitude: 47.3237119568... Longitude: -95.19710174... Datum: Minnesota State ...
 Soil Map Unit Name: 267C 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 at the end of an ephemeral drainage that is dominated by black ash with aspen and a mostly open ground layer.			

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>	<u>_____</u> Surface Soil Cracks (B6)	<u>Yes</u> Drainage Patterns (B10)
<u>_____</u> Surface Water (A1)	<u>_____</u> Water-Stained Leaves (B9)	<u>_____</u> Moss Trim Lines (B16)
<u>_____</u> High Water Table (A2)	<u>_____</u> Aquatic Fauna (B13)	<u>_____</u> Dry-Season Water Table (C2)
<u>_____</u> Saturation (A3)	<u>_____</u> Marl Deposits (B15)	<u>_____</u> Crayfish Burrows (C8)
<u>_____</u> Water Marks (B1)	<u>_____</u> Hydrogen Sulfide Odor (C1)	<u>_____</u> Saturation Visible on Aerial Imagery (C9)
<u>_____</u> Sediment Deposits (B2)	<u>_____</u> Oxidized Rhizospheres on Living Roots (C3)	<u>_____</u> Stunted/Stressed Plants (D1)
<u>_____</u> Drift Deposits (B3)	<u>_____</u> Presence of Reduced Iron (C4)	<u>Yes</u> Geomorphic Position (D2)
<u>_____</u> Algal Mat or Crust (B4)	<u>_____</u> Recent Iron Reduction in Tilled Soils (C6)	<u>_____</u> Shallow Aquitard (D3)
<u>_____</u> Iron Deposits (B5)	<u>_____</u> Thin Muck Surface (C7)	<u>_____</u> Microtopographic Relief (D4)
<u>_____</u> Inundation Visible on Aerial Imagery (B7)	<u>_____</u> Other (Explain in Remarks)	<u>Yes</u> FAC-Neutral Test (D5)
<u>_____</u> Sparsely Vegetated Concave Surface (B8)		

Field Observations:		Wetland Hydrology Present?	<u>Yes</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:
 The wetland is located at the bottom of an ephemeral drainage.

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5103a...

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot Size: <u>30 ft</u>)					
1. <u>Populus tremuloides</u>	<u>40.00</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</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>66.6666666666...</u> (A/B)	
2. <u>Tilia americana</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>		
3. <u>Fraxinus nigra</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>55</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>105.00</u> x 2 <u>210</u> FACU species <u>0.00</u> x 3 <u>224</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>161</u> (A) <u>434</u> (B) Prevalence Index = B/A = <u>2.6956521...</u>	
Sapling/Shrub Stratum (Plot Size: <u>15 ft</u>)					
1. <u>Fraxinus nigra</u>	<u>75.00</u>	<u>Yes</u>	<u>FACW</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>75</u> = Total Cover				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>yes</u> 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) <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>Poa palustris</u>	<u>15.00</u>	<u>Yes</u>	<u>FACW</u>		
2. <u>Fraxinus nigra</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>		
3. <u>Parthenocissus quinquefolia</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>		
4. <u>Galium triflorum</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>		
5. <u>Maianthemum canadense</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>31</u> = 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. _____	_____	_____	_____		
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? _____	
Remarks: (include photo numbers here or on a separate sheet.) The vegetation is dominated by quaking aspen in the canopy and black ash saplings in the shrub layer. The sparse herbaceous layer is dominated by fowl bluegrass and black ash seed...					

