

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 6/5/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CLC5085a2W
 Investigator(s): EAB/RAJ Section, Township, Range: _____
 Landform (hillslope, terrace, etc.) Depression Local relief (concave, convex, none) CC
 Slope (%): 0 - 2% Lat.: 47.369388 Long.: -95.228063 Datum: _____
 Soil Map Unit Name: 1152B 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
 Are vegetation , soil , or hydrology naturally problematic? circumstances" present?
 (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 community is an aspen/black ash swamp that lies adjacent to a road.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <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)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input checked="" 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 type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes <input type="checkbox"/> Water table present? Yes <input checked="" type="checkbox"/> Saturation present? Yes <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____ Depth (inches): <u>2</u> Depth (inches): <u>0</u>	Indicators of wetland hydrology present? <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Soils are saturated. Surface water is present in pockets throughout the wetland.		

VEGETATION - Use scientific names of plants

Sampling Point:

CLC5085a2W

Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Abies balsamea</i>	25	Y	FAC
2	<i>Populus tremuloides</i>	25	Y	FAC
3	<i>Fraxinus nigra</i>	15	Y	FACW
4				
5				
6				
7				
8				
9				
10				
		65	= Total Cover	

Sapling/Shrub Stratum	Plot Size (15 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>	25	Y	FACW
2	<i>Ulmus americana</i>	10	Y	FACW
3				
4				
5				
6				
7				
8				
9				
10				
		35	= Total Cover	

Herb Stratum	Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Carex pedunculata</i>	20	Y	FACU
2	<i>Prunus pensylvanica</i>	15	Y	FACU
3	<i>Luzula acuminata</i>	10	Y	FACU
4	<i>Thalictrum dioicum</i>	10	Y	FACU
5	<i>Fraxinus nigra</i>	5	N	FACW
6	<i>Rubus pubescens</i>	5	N	FACW
7	<i>Botrypus virginianus</i>	5	N	FACU
8	<i>Equisetum pratense</i>	5	N	FACW
9				
10				
11				
12				
13				
14				
15				
		75	= Total Cover	

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

50/20 Thresholds		
	20%	50%
Tree Stratum	13	33
Sapling/Shrub Stratum	7	18
Herb Stratum	15	38
Woody Vine Stratum	0	0

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A)		
Total Number of Dominant Species Across all Strata: <u>9</u> (B)		
Percent of Dominant Species that are OBL, FACW, or FAC: <u>55.56%</u> (A/B)		

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	<u>0</u> x 1 =	<u>0</u>
FACW species	<u>65</u> x 2 =	<u>130</u>
FAC species	<u>50</u> x 3 =	<u>150</u>
FACU species	<u>60</u> x 4 =	<u>240</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>175</u> (A)	<u>520</u> (B)
Prevalence Index = B/A = <u>2.97</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 features an interrupted canopy of quaking aspen, balsam fir, and black ash. Black ash dominates the shrub/sapling layer.

