

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 2015-06-27
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CR162f1W
 Investigator(s): ACM/LEB Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local Relief (concave, convex, none): Conca... Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 46.357910 Longitude: -92.179244 Datum: Minnesota State ...
 Soil Map Unit Name: 303 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 within a larger forest. The vegetation is dominated by aspen, black ash, Canada bluejoint, and numerous sedge spec...			

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"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<u>Yes</u> Drainage Patterns (B10)
<u>Yes</u> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted/Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<u>Yes</u> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
	<u>Yes</u> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present?	<u>No</u> Depth (inches) _____		
Water Table Present?	<u>Yes</u> Depth (inches) <u>14</u>		
Saturation Present? (includes capillary fringe)	<u>Yes</u> Depth (inches) <u>6</u>		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 The wetland is located in a depression and has soils saturated at 6 inches.

VEGETATION - Use scientific names of plants.

Sampling Point: CR162f1W

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30 ft</u>)				
1. <u>Populus tremuloides</u>	75.00	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: $\frac{100}{4} = \underline{\hspace{2cm}}$ (A/B)
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
75 = Total Cover				
Sapling/Shrub Stratum (Plot Size: <u>15 ft</u>)				
1. <u>Fraxinus nigra</u>	50.00	Yes	FACW	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>30.00</u> x 1 <u>30</u> FACW species <u>115.00</u> x 2 <u>230</u> FACU species <u>90.00</u> x 3 <u>80</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>255</u> (A) <u>610</u> (B) Prevalence Index = B/A = <u>2.3921568...</u>
2. <u>Populus tremuloides</u>	5.00	No	FACU	
3. <u>Alnus incana</u>	5.00	No	FACW	
4. <u>Acer rubrum</u>	5.00	No	FAC	
5. _____				
6. _____				
7. _____				
65 = Total Cover				
Herb Stratum (Plot Size: <u>5 ft</u>)				
1. <u>Calamagrostis canadensis</u>	25.00	Yes	OBL	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is $\leq 3.0^1$ <input type="checkbox"/> 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>
2. <u>Carex brunnescens</u>	25.00	Yes	FACW	
3. <u>Carex projecta</u>	10.00	No	FACW	
4. <u>Carex intumescens</u>	10.00	No	FACW	
5. <u>Maianthemum canadense</u>	10.00	No	FACU	
6. <u>Rubus pubescens</u>	5.00	No	FACW	
7. <u>Carex tenera</u>	5.00	No	FAC	
8. <u>Carex gracillima</u>	5.00	No	FACU	
9. <u>Poa palustris</u>	5.00	No	FACW	
10. <u>Carex castanea</u>	5.00	No	FACW	
11. <u>Rosa acicularis</u>	5.00	No	FACU	
12. <u>Cicuta maculata</u>	5.00	No	OBL	
115 = Total Cover				
Woody Vine Stratum (Plot Size: _____)				
1. _____				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.
2. _____				
3. _____				
4. _____				
0 = Total Cover				
Remarks: (include photo numbers here or on a separate sheet.)				
The vegetation was dominated by aspen, black ash, Canada bluejoint, and brownish sedge.				

