

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 2015-06-11
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CRR51001c1W
 Investigator(s): ACM/KRG Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local Relief (concave, convex, none): Conca... Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 46.583117670423 Longitude: -92.63018941... Datum: Minnesota State ...
 Soil Map Unit Name: 1073 NWI Classification: PFO/SSB

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 pocket of hardwood swamp dominated by quaking aspen and speckled alder with sparse ground cover.			

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)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> 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)	<input checked="" type="checkbox"/> 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)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<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)	

Field Observations: Surface Water Present? <u>No</u> Depth (inches) _____ Water Table Present? <u>Yes</u> Depth (inches) <u>13</u> Saturation Present? <u>Yes</u> Depth (inches) <u>3</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 soil is saturated at 3 inches.

VEGETATION - Use scientific names of plants.

Sampling Point: CRR51001...

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30</u>)				
1. <u>Populus tremuloides</u>	<u>50.00</u>	<u>Yes</u>	<u>FACU</u>	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>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>50</u> = Total Cover				
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				
1. <u>Alnus incana</u>	<u>35.00</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>25.00</u> x 1 <u>25</u> FACW species <u>70.00</u> x 2 <u>140</u> FACU species <u>2.00</u> x 3 <u>300</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>172</u> (A) <u>471</u> (B) Prevalence Index = B/A = <u>2.738372</u>
2. <u>Spiraea alba</u>	<u>15.00</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Prunus virginiana</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
4. <u>Populus tremuloides</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
5. <u>Amelanchier humilis</u>	<u>2.00</u>	<u>No</u>	_____	
6. <u>Viburnum lentago</u>	<u>2.00</u>	<u>No</u>	<u>FAC</u>	
7. _____	_____	_____	_____	
<u>64</u> = Total Cover				
Herb Stratum (Plot Size: <u>5</u>)				
1. <u>Calamagrostis canadensis</u>	<u>15.00</u>	<u>Yes</u>	<u>OBL</u>	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) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Rosa blanda</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>	
3. <u>Carex lacustris</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>	
4. <u>Spiraea alba</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	
5. <u>Carex gracillima</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
6. <u>Solidago gigantea</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
7. <u>Rubus pubescens</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>60</u> = 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. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? _____				
Remarks: (include photo numbers here or on a separate sheet.)				
The wetland was dominated by aspen and alder with a variable understory.				

