

**WETLAND DETERMINATION DATA FORM - North Central and Northeast Region**

Project/Site: SPP City/County: Aitkin Sampling Date: 2015-06-27  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: A12C5158a2W  
 Investigator(s): KAT/BEH Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.6266642138... Longitude: -93.24260646... Datum: Minnesota State ...  
 Soil Map Unit Name: 532 NWI Classification: PSS1C

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>	<b>Is the Sampled Area within a Wetland?</b>	<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 sample point is located in a hardwood swamp adjacent to a river. Soils could not be sampled because the wetland is located in a roadside area.			

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <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 checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present? <u>No</u> Depth (inches) _____ Water Table Present? <u>No</u> Depth (inches) _____ Saturation Present? <u>No</u> Depth (inches) _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> <u>Yes</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
 Wetland is in a low-lying area that collects water and the vegetation passes the FAC-Neutral test.

**VEGETATION - Use scientific names of plants.**

Sampling Point: A12C5158a...

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot Size: <u>30'</u> )					
1. <u>Salix discolor</u>	<u>15.00</u>	<u>Yes</u>	<u>FACW</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7142857142...</u> (A/B)	
2. <u>Ulmus americana</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>		
3. <u>Fraxinus pennsylvanica</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>35</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>35</u> Multiply by: OBL species <u>10.00</u> x 1 <u>10</u> FACW species <u>95.00</u> x 2 <u>190</u> FACU species <u>10.00</u> x 3 <u>60</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>130</u> (A) <u>290</u> (B) Prevalence Index = B/A = <u>2.2307692...</u>	
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15'</u> )					
1. <u>Salix discolor</u>	<u>15.00</u>	<u>Yes</u>	<u>FACW</u>		
2. <u>Corylus americana</u>	<u>15.00</u>	<u>Yes</u>	<u>FACU</u>		
3. <u>Viburnum lentago</u>	<u>10.00</u>	<u>Yes</u>	<u>FAC</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>40</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> no <u>1</u> - Rapid Test for Hydrophytic Vegetation yes <u>2</u> - Dominance Test is > 50% yes <u>3</u> - Prevalence Index is ≤ 3.0 <sup>1</sup> _____ <u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
<b>Herb Stratum</b> (Plot Size: <u>5'</u> )					
1. <u>Phalaris arundinacea</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>		
2. <u>Poa palustris</u>	<u>15.00</u>	<u>Yes</u>	<u>FACW</u>		
3. <u>Glyceria grandis</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>		
4. <u>Anemone canadensis</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>		
5. <u>Impatiens capensis</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>55</u> = Total Cover				<b>Definitions of Vegetation Strata:</b> <b>Tree</b> - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.	
<b>Woody Vine Stratum</b> (Plot Size: _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> _____	
<b>Remarks:</b> (include photo numbers here or on a separate sheet.) The canopy is a mix of pussy willow, American elm, and green ash. Ground cover is predominantly reed canary grass and fowl bluegrass.					

