

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 2016-08-09

Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-50n26w6-a2

Investigator(s): ZCW, MGH Section, Township, Range: S6, T50N, R26W

Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): VV Slope (%): 0-2%

Subregion (LRR or MLRA): _____ Latitude: 46.8527434207... Longitude: -93.67854463... Datum: NAD83

Soil Map Unit Name: 502 NWI Classification: PEM5B

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No

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>No</u>	Is the Sampled Area within a Wetland?	<u>No</u>
Hydric Soil Present?	<u>No</u>		
Wetland Hydrology Present?	<u>No</u>		
Remarks: (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis.			

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>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input 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 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:		Wetland Hydrology Present?	<u>No</u>
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)			

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

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: u-50n26w...

	Absolute % Cover	Dominant Species?	Indicator Status																									
Tree Stratum (Plot Size: <u>30</u>)																												
1. <u>Quercus rubra</u>	<u>30.00</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>14.2857142857...</u> (A/B)																								
2. <u>Betula papyrifera</u>	<u>20.00</u>	<u>Yes</u>	<u>FACU</u>																									
3. <u>Acer rubrum</u>	<u>15.00</u>	<u>Yes</u>	<u>FAC</u>																									
4. <u>Quercus bicolor</u>	<u>10.00</u>	<u>No</u>																										
5. _____																												
6. _____																												
7. _____																												
	<u>75</u>	<u>= Total Cover</u>		Prevalence Index worksheet: Total % Cover of: <table style="margin-left: 20px;"> <tr> <td></td> <td style="text-align: right;"><u>0.00</u></td> <td style="text-align: center;">x 1</td> <td style="text-align: right;"><u>0</u></td> </tr> <tr> <td>OBL species</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: right;"><u>0.00</u></td> <td style="text-align: center;">x 2</td> <td style="text-align: right;"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: right;"><u>115.00</u></td> <td style="text-align: center;">x 3</td> <td style="text-align: right;"><u>460</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: right;"><u>55.00</u></td> <td style="text-align: center;">x 4</td> <td style="text-align: right;"><u>275</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: right;"><u>195</u></td> <td style="text-align: center;">(A)</td> <td style="text-align: right;"><u>810</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>4.1538461...</u>		<u>0.00</u>	x 1	<u>0</u>	OBL species				FACW species	<u>0.00</u>	x 2	<u>0</u>	FACU species	<u>115.00</u>	x 3	<u>460</u>	UPL species	<u>55.00</u>	x 4	<u>275</u>	Column Totals	<u>195</u>	(A)	<u>810</u> (B)
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Sapling/Shrub Stratum (Plot Size: <u>15</u>)																												
1. <u>Corylus cornuta</u>	<u>45.00</u>	<u>Yes</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 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>Populus tremuloides</u>	<u>10.00</u>	<u>No</u>	<u>FAC</u>																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>55</u>	<u>= Total Cover</u>																										
Herb Stratum (Plot Size: <u>5</u>)																												
1. <u>Eurybia macrophylla</u>	<u>30.00</u>	<u>Yes</u>	<u>FACU</u>	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 herbaeceous (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. <u>Vaccinium angustifolium</u>	<u>20.00</u>	<u>Yes</u>	<u>FACU</u>																									
3. <u>Pteridium aquilinum</u>	<u>15.00</u>	<u>Yes</u>	<u>FACU</u>																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>65</u>	<u>= Total Cover</u>																										
Woody Vine Stratum (Plot Size: <u>30</u>)																												
1. _____				Hydrophytic Vegetation Present? <u>No</u>																								
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	<u>= Total Cover</u>																										
Remarks: (include photo numbers here or on a separate sheet.)																												

Site Photograph 1

Sampling Point: u-50n26w6-a2



Latitude: 46.8527391041134

Cowardin Classification: _____

Longitude: -93.6785685271897

Circular 39: _____

Direction: South

Eggers & Reed: _____

Remarks:

Upland

Site Photograph 2

Sampling Point: u-50n26w6-a2



Latitude: 46.8527391879324

Cowardin Classification: _____

Longitude: -93.6785687786468

Circular 39: _____

Direction: West

Eggers & Reed: _____

Remarks:

Upland