

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 2016-08-11
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-50n26w6-f1
 Investigator(s): ZCW, MGH Section, Township, Range: S6, T50N, R26W
 Landform (hillslope, terrace, etc.): Side Slope Local Relief (concave, convex, none): VL Slope (%): 3-7%
 Subregion (LRR or MLRA): _____ Latitude: 46.8551119370... Longitude: -93.67904797... Datum: NAD83
 Soil Map Unit Name: 504B NWI Classification: N/A
 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
Hydric Soil Present?	<u>No</u>	within a Wetland? <u>No</u>
Wetland Hydrology Present?	<u>No</u>	If yes, optional Wetland Site ID: _____
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:	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 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:	
Surface Water Present? <u>No</u> Depth (inches) _____	Wetland Hydrology Present? <u>No</u>
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>35.00</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3333333333...</u> (A/B)	
2. <u>Acer rubrum</u>	<u>15.00</u>	<u>Yes</u>	<u>FAC</u>		
3. <u>Quercus bicolor</u>	<u>10.00</u>	<u>No</u>			
4. _____					
5. _____					
6. _____					
7. _____					
<u>60</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0.00</u> x 1 <u>0</u> 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>25.00</u> x 4 <u>125</u> Column Totals <u>185</u> (A) <u>720</u> (B) Prevalence Index = B/A = <u>3.8918918...</u>	
Sapling/Shrub Stratum (Plot Size: <u>15</u>)					
1. <u>Populus tremuloides</u>	<u>15.00</u>	<u>Yes</u>	<u>FAC</u>		
2. <u>Corylus cornuta</u>	<u>15.00</u>	<u>Yes</u>	<u>UPL</u>		
3. _____					
4. _____					
5. _____					
<u>30</u> = Total Cover				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>no</u> 2 - Dominance Test is > 50% <u>no</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.	
Herb Stratum (Plot Size: <u>5</u>)					
1. <u>Eurybia macrophylla</u>	<u>40.00</u>	<u>Yes</u>	<u>FACU</u>		
2. <u>Vaccinium angustifolium</u>	<u>25.00</u>	<u>Yes</u>	<u>FACU</u>		
3. <u>Maianthemum canadense</u>	<u>15.00</u>	<u>No</u>	<u>FACU</u>		
4. <u>Clintonia borealis</u>	<u>15.00</u>	<u>No</u>	<u>FAC</u>		
5. _____					
<u>95</u> = Total Cover				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.	
Woody Vine Stratum (Plot Size: <u>30</u>)					
1. _____					
2. _____					
3. _____					
4. _____					
<u>0</u> = Total Cover					Hydrophytic Vegetation Present? <u>No</u>
Remarks: (include photo numbers here or on a separate sheet.)					

Site Photograph 1

Sampling Point: u-50n26w6-f1



Latitude: 46.8550985260372

Cowardin Classification: _____

Longitude: -93.6790249218174

Circular 39: _____

Direction: East

Eggers & Reed: _____

Remarks:

Upland

Site Photograph 2

Sampling Point: u-50n26w6-f1



Latitude: 46.8550996156846

Cowardin Classification: _____

Longitude: -93.6790246703603

Circular 39: _____

Direction: North

Eggers & Reed: _____

Remarks:

Upland