

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 2016-08-29
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-47n22w11-ac1
 Investigator(s): DPT, MGH Section, Township, Range: S11, T47N, R22W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CL Slope (%): 0-2%
 Subregion (LRR or MLRA): _____ Latitude: 46.5661721863... Longitude: -93.08191071... Datum: NAD83
 Soil Map Unit Name: 166 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>Yes</u>	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-47n22w11-ac</u>
Remarks: (Explain alternative procedures here or in a separate report.) Existing forest road, no digging, potential buried utilities. Precipitation above normal based on 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>	
<u>yes</u> Surface Water (A1)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Stunted/Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> <u>YES</u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)	<u> </u> Microtopographic Relief (D4)
	<u> </u> <u>YES</u> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches)	<u>2</u>
Water Table Present?	<u>Yes</u>	Depth (inches)	<u>0</u>
Saturation Present? (includes capillary fringe)	<u>Yes</u>	Depth (inches)	<u>0</u>

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

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: w-47n22w...

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot Size: <u>30</u>)					
1. <u>Acer rubrum</u>	<u>5.00</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</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>83.3333333333...</u> (A/B)	
2. <u>Populus tremuloides</u>	<u>5.00</u>	<u>Yes</u>	<u>FAC</u>		
3. <u>Betula papyrifera</u>	<u>5.00</u>	<u>Yes</u>	<u>FACU</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>15</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>20.00</u> x 1 <u>20</u> FACW species <u>85.00</u> x 2 <u>170</u> FACU species <u>15.00</u> x 3 <u>60</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>155</u> (A) <u>355</u> (B) Prevalence Index = B/A = <u>2.2903225...</u>	
Sapling/Shrub Stratum (Plot Size: <u>15</u>)					
1. <u>Alnus incana</u>	<u>40.00</u>	<u>Yes</u>	<u>FACW</u>		
2. <u>Acer rubrum</u>	<u>25.00</u>	<u>Yes</u>	<u>FAC</u>		
3. <u>Betula papyrifera</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>		
4. <u>Fraxinus nigra</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>80</u> = Total Cover				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) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>	
Herb Stratum (Plot Size: <u>5</u>)					
1. <u>Calamagrostis canadensis</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>		
2. <u>Iris versicolor</u>	<u>20.00</u>	<u>Yes</u>	<u>OBL</u>		
3. <u>Onoclea sensibilis</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>		
4. <u>Impatiens capensis</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>60</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 herbaecous (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>Yes</u>	
Remarks: (include photo numbers here or on a separate sheet.)					

Site Photograph 1

Sampling Point: w-47n22w11-ac1



Latitude: 46.5661682468341

Cowardin Classification: PSS

Longitude: -93.0818913505348

Circular 39: 6

Direction: east

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:

Site Photograph 2

Sampling Point: w-47n22w11-ac1



Latitude: 46.5661668219106

Cowardin Classification: PSS

Longitude: -93.0818684679392

Circular 39: 6

Direction: north

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks: