

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

Project/Site: SPP City/County: Aitkin Sampling Date: 2016-08-30  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-47n22w14-ae1  
 Investigator(s): DPT, MGH Section, Township, Range: S14, T47N, R22W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.557171614884 Longitude: -93.09004065... Datum: NAD83  
 Soil Map Unit Name: 152C 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>	<b>Is the Sampled Area within a Wetland?</b>	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-47n22w14-ae</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**

<b>Wetland Hydrology Indicators:</b>	<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)	_____ Surface Soil Cracks (B6)
_____ High Water Table (A2)	_____ Drainage Patterns (B10)
_____ Saturation (A3)	_____ Moss Trim Lines (B16)
_____ Water Marks (B1)	_____ Dry-Season Water Table (C2)
_____ Sediment Deposits (B2)	_____ Crayfish Burrows (C8)
_____ Drift Deposits (B3)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Algal Mat or Crust (B4)	_____ Stunted/Stressed Plants (D1)
_____ Iron Deposits (B5)	<u>YES</u> Geomorphic Position (D2)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Shallow Aquitard (D3)
_____ Sparsely Vegetated Concave Surface (B8)	_____ Microtopographic Relief (D4)
	<u>YES</u> FAC-Neutral Test (D5)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches)	<u>4</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	
<b>Tree Stratum</b> (Plot Size: <u>30</u> )				
1. _____	_____	_____	_____	<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>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 = Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1. <u>Alnus incana</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	<b>Prevalence Index worksheet:</b> Total % Cover of: <span style="float:right">Multiply by:</span> OBL species <u>20.00</u> x 1 <u>20</u> FACW species <u>130.00</u> x 2 <u>260</u> FACU species <u>0.00</u> x 3 <u>0</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>160</u> (A) <u>310</u> (B) Prevalence Index = B/A = <u>1.9375</u>
2. <u>Salix petiolaris</u>	<u>20.00</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Salix bebbiana</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
60 = Total Cover				
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1. <u>Calamagrostis canadensis</u>	<u>40.00</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>yes</u> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> _____ 4 - 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.
2. <u>Phalaris arundinacea</u>	<u>30.00</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Impatiens capensis</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	
4. <u>Solidago gigantea</u>	<u>10.00</u>	<u>No</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
100 = Total Cover				
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )				
1. _____	_____	_____	_____	<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 herbaeceous (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.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 = Total Cover				
<b>Hydrophytic Vegetation Present?</b>				<u>Yes</u>
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				



Site Photograph 1

Sampling Point: w-47n22w14-ae1



Latitude: 46.5571707766937

Cowardin Classification: PSS

Longitude: -93.0900407397124

Circular 39: 6

Direction: east

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:

Site Photograph 2

Sampling Point: w-47n22w14-ae1



Latitude: 46.5570169687705

Cowardin Classification: PSS

Longitude: -93.0889935047301

Circular 39: 6

Direction: south

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks: