

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Sandpiper City/County: Wadena Sampling Date: 09/13/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: WA017a1W  
 Investigator(s): DPT Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave/Concave  
 Slope (%): 0 Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI Classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions of the site typical for this time of the year? \_\_\_\_\_ (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? circumstances" present? Yes  
 (If needed, explain any answers in remarks)

**SUMMARY OF FINDINGS**

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	<p align="center"><b>Is the sampled area within a wetland?</b> <u>Y</u></p> If yes, optional wetland site ID: <u>WA017a1W</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center">PSS - Type 6, shrub-carr</p>	

**HYDROLOGY**

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" 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 <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial <input type="checkbox"/> Soils (C6) <input type="checkbox"/> Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Surface (B8)	Secondary Indicators (minimum of two required) <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 <input type="checkbox"/> (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Microtopographic Relief (D4)
Field Observations: Surface water present? Yes _____ No <u>X</u> Depth (inches): _____ Water table present? Yes <u>X</u> No _____ Depth (inches): <u>12</u> Saturation present? Yes <u>X</u> No _____ Depth (inches): <u>6</u> (includes capillary fringe)	<p align="center"><b>Indicators of wetland hydrology present?</b> <u>Y</u></p>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  	
Remarks:	

**VEGETATION** - Use scientific names of plants

**Sampling Point:** WA017a1W

Tree Stratum	Plot Size ( 30 ft )	Absolute % Cover	Dominant Species	Indicator Status		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
		<u>0</u>	= Total Cover			
Sapling/Shrub Stratum	Plot Size ( 15 ft )	Absolute % Cover	Dominant Species	Indicator Status		
1	<i>Salix petiolaris</i>	40	Y	FACW		
2	<i>Alnus incana</i>	20	Y	FACW		
3	<i>Rubus idaeus</i>	10	N	FAC		
4	<i>Populus tremuloides</i>	5	N	FAC		
5	<i>Betula pumila</i>	5	N	OBL		
6						
7						
8						
9						
10						
		<u>80</u>	= Total Cover			
Herb Stratum	Plot Size ( 5 ft )	Absolute % Cover	Dominant Species	Indicator Status		
1	<i>Phalaris arundinacea</i>	80	Y	FACW		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
		<u>80</u>	= Total Cover			
Woody Vine Stratum	Plot Size ( )	Absolute % Cover	Dominant Species	Indicator Status		
1						
2						
3						
4						
5						
		<u>0</u>	= Total Cover			

**50/20 Thresholds**

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	16	40
Herb Stratum	16	40
Woody Vine Stratum	0	0

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**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

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**Prevalence Index Worksheet**

Total % Cover of:

OBL species	<u>5</u>	x 1 =	<u>5</u>
FACW species	<u>140</u>	x 2 =	<u>280</u>
FAC species	<u>15</u>	x 3 =	<u>45</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>160</u> (A)		<u>330</u> (B)
Prevalence Index = B/A =			<u>2.06</u>

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**Hydrophytic Vegetation Indicators:**

Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0\*

Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)

Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

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**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (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.

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**Hydrophytic vegetation present?** Y

Remarks: (Include photo numbers here or on a separate sheet)

