

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpiper City/County: Wadena Sampling Date: 09/15/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: WA015a1U
 Investigator(s): DPT Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Rise Local relief (concave, convex, none): Convex/Linear
 Slope (%): 1 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> N </u> Hydric soil present? <u> N </u> Indicators of wetland hydrology present? <u> N </u>	<p align="center">Is the sampled area within a wetland? <u> N </u></p> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

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 type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input 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 type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input 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 _____ No <u> X </u> Depth (inches): _____ Saturation present? Yes _____ No <u> X </u> Depth (inches): _____ (includes capillary fringe)	<p align="center">Indicators of wetland hydrology present? <u> N </u></p>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION - Use scientific names of plants

Sampling Point: WA015a1U

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>Corylus cornuta</i>	80	Y	FACU		
2	<i>Populus tremuloides</i>	10	N	FAC		
3						
4						
5						
6						
7						
8						
9						
10						
		<u>90</u>	= Total Cover			
Herb Stratum	Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status		
1	<i>Poa pratensis</i>	40	Y	FACU		
2	<i>Helianthus giganteus</i>	10	N	FACW		
3	<i>Calamagrostis canadensis</i>	5	N	OBL		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
		<u>55</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	18	45
Herb Stratum	11	28
Woody Vine Stratum	0	0
Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A)		
Total Number of Dominant Species Across all Strata: <u>2</u> (B)		
Percent of Dominant Species that are OBL, FACW, or FAC: <u>0.00%</u> (A/B)		
Prevalence Index Worksheet		
Total % Cover of:		
OBL species	<u>5</u> x 1 =	<u>5</u>
FACW species	<u>10</u> x 2 =	<u>20</u>
FAC species	<u>10</u> x 3 =	<u>30</u>
FACU species	<u>120</u> x 4 =	<u>480</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>145</u> (A)	<u>535</u> (B)
Prevalence Index = B/A = <u>3.69</u>		
Hydrophytic Vegetation Indicators:		
<input type="checkbox"/> Rapid test for hydrophytic vegetation		
<input type="checkbox"/> Dominance test is >50%		
<input type="checkbox"/> Prevalence index is ≤3.0*		
<input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)		
<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)		
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
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.		
Hydrophytic vegetation present? <u>N</u>		

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

