

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 5/21/2014
 Applicant/Owner: Enbridge State: MN Sampling Point AIC5311e1W
 Investigator(s): BJC/DGL Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC
 Slope (%): 0 - 2% Lat.: 46.589272 Long.: -93.123559 Datum: WGS84
 Soil Map Unit Name: 504B 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?
 (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>	Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a small, depressional area near powerlines in a hayed field. A small rock pile measuring approximately 5 ft by 5 ft. in area is located within the wetland.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <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)	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 (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes <input type="checkbox"/> Water table present? Yes <input checked="" type="checkbox"/> Saturation present? Yes <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____ Depth (inches): <u>12</u> Depth (inches): <u>10</u>	Indicators of wetland hydrology present? <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: The wetland is located in a low lying depressional area within the landscape. Water table observed at 12".		

VEGETATION - Use scientific names of plants

Sampling Point:

AIC5311e1W

Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status																
1					50/20 Thresholds <table style="width:100%; border-collapse: collapse;"> <tr> <td></td><td style="text-align: right;">20%</td><td style="text-align: right;">50%</td></tr> <tr> <td>Tree Stratum</td><td style="text-align: right;">0</td><td style="text-align: right;">0</td></tr> <tr> <td>Sapling/Shrub Stratum</td><td style="text-align: right;">0</td><td style="text-align: right;">0</td></tr> <tr> <td>Herb Stratum</td><td style="text-align: right;">20</td><td style="text-align: right;">50</td></tr> <tr> <td>Woody Vine Stratum</td><td style="text-align: right;">0</td><td style="text-align: right;">0</td></tr> </table>		20%	50%	Tree Stratum	0	0	Sapling/Shrub Stratum	0	0	Herb Stratum	20	50	Woody Vine Stratum	0	0
	20%	50%																		
Tree Stratum	0	0																		
Sapling/Shrub Stratum	0	0																		
Herb Stratum	20	50																		
Woody Vine Stratum	0	0																		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10		0 = Total Cover																		
					Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across all Strata: <u>1</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)															
Sapling/Shrub Stratum	Plot Size (15 ft)	Absolute % Cover	Dominant Species	Indicator Status																
1					Prevalence Index Worksheet Total % Cover of: OBL species $\frac{5}{100} \times 1 = \frac{5}{100}$ FACW species $\frac{50}{100} \times 2 = \frac{100}{100}$ FAC species $\frac{15}{100} \times 3 = \frac{45}{100}$ FACU species $\frac{30}{100} \times 4 = \frac{120}{100}$ UPL species $\frac{0}{100} \times 5 = \frac{0}{100}$ Column totals <u>100</u> (A) <u>270</u> (B) Prevalence Index = B/A = <u>2.70</u>															
2																				
3																				
4																				
5																				
6																				
7																				
8																				
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10		0 = Total Cover																		
Herb Stratum	Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status																
1	<i>Phalaris arundinacea</i>	50	Y	FACW	Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid test for hydrophytic vegetation <input checked="" type="checkbox"/> Dominance test is >50% <input checked="" type="checkbox"/> 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															
2	<i>Ranunculus hispidus</i>	15	N	FAC																
3	<i>Poa pratensis</i>	15	N	FACU																
4	<i>Taraxacum officinale</i>	10	N	FACU																
5	<i>Trifolium hybridum</i>	5	N	FACU																
6	<i>Carex stipata</i>	5	N	OBL																
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15		100 = Total Cover																		
Woody Vine Stratum	Plot Size (30)	Absolute % Cover	Dominant Species	Indicator Status																
1					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.															
2																				
3																				
4																				
5		0 = Total Cover																		
					Hydrophytic vegetation present? <u>Y</u>															

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

The vegetation is dominated by reed canary grass. The wetland is located in a hayed field.

