

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Hubbard Sampling Date: 6/16/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: HUC5072_300c1W
 Investigator(s): BCS/BEH Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC
 Slope (%): 0 - 2% Lat.: 47.05821083 Long.: -95.14519482 Datum: _____
 Soil Map Unit Name: 797 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 willow-dominated Shrub-Carr community adjacent to a gravel road. A narrow fringe of speckled alder is present along the wetland margins.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☒ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☒ High Water Table (A2) ☐ Aquatic Fauna (B13) ☒ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on ☐ Drift Deposits (B3) ☐ Living Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) Surface (B8)	Secondary Indicators (minimum of two required) ☐ Surface Soil Cracks (B6) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☒ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☒ FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes ☒ Depth (inches): <u>3</u> Water table present? Yes ☒ Depth (inches): <u>0</u> Saturation present? Yes ☒ Depth (inches): <u>0</u> (includes capillary fringe)	Indicators of wetland hydrology present? <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Surface water is present and measures 3 inches deep at the sample point.	

VEGETATION - Use scientific names of plants
Sampling Point:

HUC5072_300c1W

Tree Stratum			Plot Size (30 ft)			Absolute % Cover	Dominant Species	Indicator Status
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
					0	= Total Cover		

Sapling/Shrub Stratum			Plot Size (15 ft)			Absolute % Cover	Dominant Species	Indicator Status
1		<i>Salix discolor</i>				25	Y	FACW
2		<i>Salix bebbiana</i>				15	Y	FACW
3		<i>Salix petiolaris</i>				5	N	FACW
4								
5								
6								
7								
8								
9								
10								
					45	= Total Cover		

Herb Stratum			Plot Size (5 ft)			Absolute % Cover	Dominant Species	Indicator Status
1		<i>Calamagrostis canadensis</i>				55	Y	OBL
2		<i>Carex lacustris</i>				10	N	OBL
3		<i>Cornus alba</i>				10	N	FACW
4		<i>Petasites sagittatus</i>				5	N	FACW
5		<i>Caltha palustris</i>				2	N	OBL
6		<i>Iris versicolor</i>				2	N	OBL
7		<i>Solidago gigantea</i>				2	N	FACW
8								
9								
10								
11								
12								
13								
14								
15								
					86	= Total Cover		

Woody Vine Stratum			Plot Size (30 ft)			Absolute % Cover	Dominant Species	Indicator Status
1								
2								
3								
4								
5								
					0	= Total Cover		

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	9	23
Herb Stratum	17	43
Woody Vine Stratum	0	0

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)

Prevalence Index Worksheet

Total % Cover of:

OBL species	69	x 1 =	69
FACW species	62	x 2 =	124
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	131	(A)	193 (B)
Prevalence Index = B/A =			1.47

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

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? Y

Remarks: (Include photo numbers here or on a separate sheet)
 The wetland sample area is dominated by pussy willow and Bebb's willow in the shrub layer; Canada bluejoint dominates the herbaceous layer.

SOIL

Sampling Point: HUC5072_300c1W

[illegible]