

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_300c2U
 Investigator(s): BEH/BCS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Summit Local relief (concave, convex, none): VV
 Slope (%): 3 - 7% Lat.: 47.05638917 Long.: -95.14477067 Datum: _____
 Soil Map Unit Name: 526C 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>N</u> Hydric soil present? <u>N</u> Indicators of wetland hydrology present? <u>N</u>	Is the sampled area within a wetland? <u>N</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The sample point is located in a small clearing dominated by young jack pine, speckled alder, and a mix of grasses. Mature aspen forest surrounds the clearing. The sample point contained no indicators of wetland hydrology or hydric soil.	

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): _____ Water table present? Yes ☐ Depth (inches): _____ Saturation present? Yes ☐ Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No primary or secondary hydrological indicators were observed.	

VEGETATION - Use scientific names of plants
Sampling Point:

HUC5072_300c2U

Tree Stratum			Plot Size (30 ft)			Absolute % Cover	Dominant Species	Indicator Status
1		<i>Pinus banksiana</i>			30	Y	FACU	
2		<i>Quercus rubra</i>			5	N	FACU	
3								
4								
5								
6								
7								
8								
9								
10								
					35	= Total Cover		

Sapling/Shrub Stratum			Plot Size (15 ft)			Absolute % Cover	Dominant Species	Indicator Status
1		<i>Alnus incana</i>			15	Y	FACW	
2		<i>Betula papyrifera</i>			5	N	FACU	
3		<i>Pinus banksiana</i>			5	N	FACU	
4		<i>Salix bebbiana</i>			1	N	FACW	
5		<i>Prunus virginiana</i>			1	N	FACU	
6								
7								
8								
9								
10								
					27	= Total Cover		

Herb Stratum			Plot Size (5 ft)			Absolute % Cover	Dominant Species	Indicator Status
1		<i>Elymus trachycaulus</i>			25	Y	FACU	
2		<i>Poa pratensis</i>			15	Y	FACU	
3		<i>Poa palustris</i>			5	N	FACW	
4		<i>Hieracium aurantiacum</i>			5	N	NI	
5		<i>Solidago gigantea</i>			5	N	FACW	
6		<i>Alnus incana</i>			5	N	FACW	
7								
8								
9								
10								
11								
12								
13								
14								
15								
					60	= 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	7	18
Sapling/Shrub Stratum	5	14
Herb Stratum	12	30
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 25.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	31	x 2 =	62
FAC species	0	x 3 =	0
FACU species	86	x 4 =	344
UPL species	0	x 5 =	0
Column totals	117	(A)	406 (B)
Prevalence Index = B/A = <u>3.47</u>			

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? N

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

The upland sample point is dominated by young jack pine trees, speckled alder shrubs, and a ground cover of slender wheat grass and Kentucky blue grass.

SOIL

Sampling Point: HUC5072_300c2U

[illegible]