

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_300d1U
 Investigator(s): BEH/BCS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Side slope Local relief (concave, convex, none): VL
 Slope (%): 8 - 15% Lat.: 47.05730284 Long.: -95.14414322 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>Y</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 upland sample point is located in a quaking aspen forest upslope from a forested depression. The understory is comprised of beaked hazelnut and tatarian honeysuckle. The forest floor is covered by lady fern.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1) ☐ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)	☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ 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 ☐ Water table present? Yes ☐ Saturation present? Yes ☒ (includes capillary fringe)		Depth (inches): _____ Depth (inches): _____ Depth (inches): <u>9</u>	
		Indicators of wetland hydrology present? <u>Y</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: The soil is saturated 9 inches below the surface, which is likely a result of recent heavy rains that have affected the region.			

VEGETATION - Use scientific names of plants
Sampling Point:

HUC5072_300d1U

Tree Stratum				Plot Size (30 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Populus tremuloides</i>			45	Y	FAC		
2								
3								
4								
5								
6								
7								
8								
9								
10								
				45	= Total Cover			

Sapling/Shrub Stratum				Plot Size (15 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Lonicera tatarica</i>			25	Y	FACU		
2	<i>Corylus cornuta</i>			10	Y	FACU		
3	<i>Prunus virginiana</i>			5	N	FACU		
4	<i>Ulmus americana</i>			5	N	FACW		
5	<i>Cornus alternifolia</i>			5	N	FACU		
6								
7								
8								
9								
10								
				50	= Total Cover			

Herb Stratum				Plot Size (5 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Athyrium filix-femina</i>			55	Y	FAC		
2	<i>Aralia nudicaulis</i>			10	N	FACU		
3	<i>Sanicula marilandica</i>			5	N	FACU		
4	<i>Eurybia macrophylla</i>			5	N	UPL		
5	<i>Thalictrum dioicum</i>			5	N	FACU		
6	<i>Carex pensylvanica</i>			5	N	NI		
7	<i>Galium triflorum</i>			5	N	FACU		
8								
9								
10								
11								
12								
13								
14								
15								
				90	= 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	9	23
Sapling/Shrub Stratum	10	25
Herb Stratum	18	45
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

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

Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	100	x 3 =	300
FACU species	70	x 4 =	280
UPL species	5	x 5 =	25
Column totals	180	(A)	615 (B)
Prevalence Index = B/A =		<u>3.42</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 site is a quaking aspen forest with a dense shrub layer of tatarian honeysuckle, beaked hazelnut, and chokecherry. The ground is covered by lady fern, wild sarsaparilla, and large-leaf aster.

SOIL

Sampling Point: HUC5072_300d1U

[illegible]