

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_300e1U
 Investigator(s): BEH/BCS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.) Footslope Local relief (concave, convex, none) CL
 Slope (%): 8 - 15% Lat.: 47.05825717 Long.: -95.14629783 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 on a forested slope uphill from a depressional wetland. The area is dominated by quaking aspen, a dense sapling/shrub layer, and a ground cover of bracken fern, large-leaf aster, and Pennsylvania sedge. No indicators of hydrology or hydric soil were observed.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ 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)		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_300e1U

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

Sapling/Shrub Stratum			Plot Size (15 ft)			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Populus tremuloides</i>		40	Y	FAC			
2	<i>Prunus virginiana</i>		15	Y	FACU			
3	<i>Lonicera tatarica</i>		10	N	FACU			
4								
5								
6								
7								
8								
9								
10								
			65	= Total Cover				

Herb Stratum			Plot Size (5 ft)			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Pteridium aquilinum</i>		30	Y	FACU			
2	<i>Eurybia macrophylla</i>		25	Y	UPL			
3	<i>Carex pensylvanica</i>		15	N	NI			
4	<i>Aralia nudicaulis</i>		5	N	FACU			
5	<i>Parthenocissus vitacea</i>		5	N	FACU			
6	<i>Thalictrum dioicum</i>		5	N	FACU			
7	<i>Rubus idaeus</i>		5	N	FAC			
8	<i>Osmorhiza claytonii</i>		5	N	FACU			
9								
10								
11								
12								
13								
14								
15								
			95	= 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	12	30
Sapling/Shrub Stratum	13	33
Herb Stratum	19	48
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: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 40.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	90	x 3 =	270
FACU species	90	x 4 =	360
UPL species	25	x 5 =	125
Column totals	205	(A)	755 (B)
Prevalence Index = B/A =		<u>3.68</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 sample point is dominated by quaking aspen trees and saplings, with scattered oak trees. The shrub layer also contains an abundance of chokecherry and tatarian honeysuckle. The herbaceous layer is dominated by bracken fern, large-leaf aster, and Pennsylvania sedge.

SOIL

Sampling Point: HUC5072_300e1U

[illegible]