

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/27/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRR51010_612b1U
 Investigator(s): LEB/CPF Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): CC
 Slope (%): 0 - 2% Lat.: 46.604463 Long.: -92.551123 Datum: _____
 Soil Map Unit Name: 504E 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 slope within a mixed mesic forest and is dominated by hazelnut and red maple.	

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): _____	
		Indicators of wetland hydrology present? <u>N</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No wetland hydrology was observed.			

VEGETATION - Use scientific names of plants
Sampling Point:

CRR51010_612b1U

Tree Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Acer rubrum</i>	30 ft	35	Y	FAC
2					
3					
4					
5					
6					
7					
8					
9					
10					
			35 = Total Cover		

Sapling/Shrub Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Corylus cornuta</i>	15 ft	65	Y	FACU
2					
3					
4					
5					
6					
7					
8					
9					
10					
			65 = Total Cover		

Herb Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Anemone quinquefolia</i>	5 ft	10	Y	FACU
2	<i>Equisetum arvense</i>		5	Y	FAC
3	<i>Luzula acuminata</i>		5	Y	FACU
4	<i>Uvularia grandiflora</i>		1	N	NI
5	<i>Trillium grandiflorum</i>		1	N	NI
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
			22 = Total Cover		

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

50/20 Thresholds

	20%	50%
Tree Stratum	7	18
Sapling/Shrub Stratum	13	33
Herb Stratum	4	11
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	<u>0</u> x 1 =	<u>0</u>
FACW species	<u>0</u> x 2 =	<u>0</u>
FAC species	<u>40</u> x 3 =	<u>120</u>
FACU species	<u>80</u> x 4 =	<u>320</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>120</u> (A)	<u>440</u> (B)
Prevalence Index = B/A =		<u>3.67</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 area is dominated by beaked hazelnut and red maple. Much of the surrounding forest is dominated by quaking aspen.

SOIL

Sampling Point: CRR51010_612b1U

[illegible]