

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_612b1W
 Investigator(s): LEB/CPF Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC
 Slope (%): 0 - 2% Lat.: 46.604397 Long.: -92.551049 Datum: _____
 Soil Map Unit Name: 504C 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 small depression dominated by red maple. The site is located within a mixed mesic forest.	

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): <u>3</u> Depth (inches): <u>0</u> Depth (inches): <u>0</u>	
		Indicators of wetland hydrology present? <u>Y</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: The wetland is inundated throughout its area.			

VEGETATION - Use scientific names of plants
Sampling Point:

CRR51010_612b1W

Tree Stratum Plot Size (30 ft)					Absolute % Cover		Dominant Species		Indicator Status	
1	<i>Acer rubrum</i>				45		Y		FAC	
2	<i>Fraxinus nigra</i>				5		N		FACW	
3										
4										
5										
6										
7										
8										
9										
10										
					50	= Total Cover				
Sapling/Shrub Stratum Plot Size (15 ft)					Absolute % Cover		Dominant Species		Indicator Status	
1	<i>Acer rubrum</i>				10		Y		FAC	
2	<i>Fraxinus nigra</i>				5		Y		FACW	
3										
4										
5										
6										
7										
8										
9										
10										
					15	= Total Cover				
Herb Stratum Plot Size (5 ft)					Absolute % Cover		Dominant Species		Indicator Status	
1	<i>Caltha palustris</i>				15		Y		OBL	
2	<i>Equisetum pratense</i>				10		Y		FACW	
3	<i>Equisetum sylvaticum</i>				5		N		FACW	
4	<i>Iris versicolor</i>				5		N		OBL	
5	<i>Rubus pubescens</i>				5		N		FACW	
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
					40	= 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	10	25
Sapling/Shrub Stratum	3	8
Herb Stratum	8	20
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	20	x 1 =	20
FACW species	30	x 2 =	60
FAC species	55	x 3 =	165
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	105 (A)		245 (B)

Prevalence Index = B/A = 2.33

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 is dominated by red maple.

SOIL

Sampling Point: CRR51010_612b1W

[illegible]