

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 6/9/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CR103c1W
 Investigator(s): JRT/KJA Section, Township, Range: _____
 Landform (hillslope, terrace, etc.) Depression Local relief (concave, convex, none) CC
 Slope (%): 0 - 2% Lat.: 46.637517 Long.: -92.459683 Datum: _____
 Soil Map Unit Name: 975C 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 sample point is located in an ephemeral wetland within a mesic forested area. Vegetation is dominated by young black ash. The site is a depressional area bounded by a residential driveway.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	Field Observations: Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>2</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	Indicators of wetland hydrology present? <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: The sample point has a high water table, saturation, and water-stained leaves--all are primary indicators of wetland hydrology. Standing water is present in other areas of the wetland.			

VEGETATION - Use scientific names of plants

Sampling Point:

CR103c1W

Tree Stratum				Plot Size (30 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>					30	Y	FACW
2								
3								
4								
5								
6								
7								
8								
9								
10								
					30	= Total Cover		
Sapling/Shrub Stratum				Plot Size (15 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Cornus alba</i>					5	Y	FACW
2								
3								
4								
5								
6								
7								
8								
9								
10								
					5	= Total Cover		
Herb Stratum				Plot Size (5 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Matteuccia struthiopteris</i>					5	Y	FAC
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
					5	= 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	6	15
Sapling/Shrub Stratum	1	3
Herb Stratum	1	3
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

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

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	35	x 2 =	70
FAC species	5	x 3 =	15
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	40	(A)	85 (B)
Prevalence Index = B/A =			<u>2.13</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? Y

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

The ephemeral wetland contains young black ash in tree stratum. There is minimal herbaceous growth; approximately 95 percent of the area consists of bare ground. The wetland is surrounded by mesic forest dominated by sugar maple, paper birch and ironwood.

