

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: CR103b1U
 Investigator(s): JRT/KJA Section, Township, Range: _____
 Landform (hillslope, terrace, etc.) Side slope Local relief (concave, convex, none) CL
 Slope (%): 3 - 7% Lat.: 46.637719 Long.: -92.457969 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> 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 in a mesic hardwood forest. The canopy is dominated by sugar maple, red oak, and ironwood and the herbaceous layer is dominated by large-leaf aster and blue-bead lily.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input 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 <input type="checkbox"/> Drift Deposits (B3) Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial <input type="checkbox"/> Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) 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 type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input type="checkbox"/> Depth (inches): _____ Saturation present? Yes <input type="checkbox"/> 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 indicators of wetland hydrology were observed.	

VEGETATION - Use scientific names of plants

Sampling Point:

CR103b1U

Tree Stratum				Plot Size (30 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Acer saccharum</i>			25	Y	FACU		
2	<i>Quercus rubra</i>			25	Y	FACU		
3	<i>Ostrya virginiana</i>			25	Y	FACU		
4								
5								
6								
7								
8								
9								
10								
				75	=	Total Cover		

Sapling/Shrub Stratum				Plot Size (15 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Corylus cornuta</i>			10	Y	FACU		
2	<i>Cornus alternifolia</i>			5	Y	FACU		
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>Eurybia macrophylla</i>			30	Y	UPL		
2	<i>Clintonia borealis</i>			30	Y	FAC		
3	<i>Anemone quinquefolia</i>			10	N	FACU		
4	<i>Maianthemum canadense</i>			5	N	FACU		
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
				75	=	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			
Tree Stratum	20%	50%	
Sapling/Shrub Stratum	15	38	
Herb Stratum	3	8	
Woody Vine Stratum	15	38	
	0	0	

Dominance Test Worksheet			
Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A)			
Total Number of Dominant Species Across all Strata: <u>7</u> (B)			
Percent of Dominant Species that are OBL, FACW, or FAC: <u>14.29%</u> (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>30</u>	x 3 =	<u>90</u>
FACU species	<u>105</u>	x 4 =	<u>420</u>
UPL species	<u>30</u>	x 5 =	<u>150</u>
Column totals	<u>165</u> (A)		<u>660</u> (B)
Prevalence Index = B/A = <u>4.00</u>			

Hydrophytic Vegetation Indicators:			
<input type="checkbox"/> Rapid test for hydrophytic vegetation			
<input type="checkbox"/> Dominance test is >50%			
<input type="checkbox"/> Prevalence index is ≤3.0*			
<input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)			
<input type="checkbox"/> 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?	
<u>N</u>	

Remarks: (Include photo numbers here or on a separate sheet)
 Approximately 25 percent of the area consists of bare ground or leaf litter.

