

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 6/2/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRR51007a6U
 Investigator(s): LEB/CPF Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none) CC
 Slope (%): 3 - 7% Lat.: 46.580796 Long.: -92.606204 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 circumstances" present?
 Are vegetation , soil , or hydrology naturally problematic?
 (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 point is on a slope within a mesic forest dominated by aspen and red oak.	

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 Living <input type="checkbox"/> Drift Deposits (B3) 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 wetland hydrology observed.			

VEGETATION - Use scientific names of plants

Sampling Point:

CRR51007a6U

Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Populus tremuloides</i>	35	Y	FAC
2	<i>Acer saccharinum</i>	30	Y	FACW
3	<i>Quercus rubra</i>	15	N	FACU
4	<i>Acer rubrum</i>	5	N	FAC
5				
6				
7				
8				
9				
10				
		85 = Total Cover		

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

Herb Stratum	Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Maianthemum canadense</i>	20	Y	FACU
2	<i>Eurybia macrophylla</i>	15	Y	UPL
3	<i>Cornus canadensis</i>	15	Y	FAC
4	<i>Maianthemum racemosum</i>	10	N	FACU
5	<i>Luzula acuminata</i>	5	N	FACU
6	<i>Abies balsamea</i>	5	N	FAC
7	<i>Trientalis borealis</i>	5	N	FAC
8	<i>Carex arctata</i>	5	N	
9	<i>Rubus pubescens</i>	5	N	FACW
10	<i>Clintonia borealis</i>	5	N	FAC
11				
12				
13				
14				
15				
		90 = 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	17	43
Sapling/Shrub Stratum	13	33
Herb Stratum	18	45
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:	6 (B)
Percent of Dominant Species that are OBL, FACW, or FAC:	50.00% (A/B)

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	0 x 1 =	0
FACW species	35 x 2 =	70
FAC species	70 x 3 =	210
FACU species	115 x 4 =	460
UPL species	15 x 5 =	75
Column totals	235 (A)	815 (B)
Prevalence Index = B/A =	3.47	

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 vegetation is dominated by aspen and sugar maple with common mesic hardwood forest understory species present.

