

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 6/3/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRR51007_300a1U
 Investigator(s): LEB/CPF Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none) CC
 Slope (%): 0 - 2% Lat.: 46.580694 Long.: -92.610433 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 located on a slight slope in a mesic hardwood forest dominated by aspen.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ 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)		Secondary Indicators (minimum of two required) ☐ 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): <u>14</u> Depth (inches): <u>12</u>	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. Water table present at 14 inches.		

VEGETATION - Use scientific names of plants
Sampling Point:

CRR51007_300a1U

Tree Stratum					Plot Size (30 ft)		Absolute %	Dominant	Indicator
						Cover	Species	Status	
1	<i>Populus tremuloides</i>					45	Y	FAC	
2	<i>Betula papyrifera</i>					30	Y	FACU	
3	<i>Quercus rubra</i>					5	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 %	Dominant	Indicator
						Cover	Species	Status	
1	<i>Acer rubrum</i>					15	Y	FAC	
2	<i>Ulmus americana</i>					5	Y	FACW	
3									
4									
5									
6									
7									
8									
9									
10									
						20	=	Total Cover	

Herb Stratum					Plot Size (5 ft)		Absolute %	Dominant	Indicator
						Cover	Species	Status	
1	<i>Aralia nudicaulis</i>					30	Y	FACU	
2	<i>Eurybia macrophylla</i>					25	Y	UPL	
3	<i>Pteridium aquilinum</i>					5	N	FACU	
4	<i>Maianthemum canadense</i>					5	N	FACU	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
						65	=	Total Cover	

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

50/20 Thresholds

	20%	50%
Tree Stratum	17	43
Sapling/Shrub Stratum	4	10
Herb Stratum	13	33
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	5	x 2 =	10
FAC species	65	x 3 =	195
FACU species	75	x 4 =	300
UPL species	25	x 5 =	125
Column totals	170	(A)	630 (B)
Prevalence Index = B/A =	<u>3.71</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 vegetation is dominated by aspen with mesic forest understory species underneath.

SOIL

Sampling Point: CRR51007_300a1U

[illegible]