

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/Country: Carlton Sampling Date: 5/27/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRR51010_612c2W
 Investigator(s): LEB/CPF Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC
 Slope (%): 0 - 2% Lat.: 42.605713 Long.: -92.550356 Datum: _____
 Soil Map Unit Name: 533 NWI Classification: PSS/EME
 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 point is located in a large, coniferous swamp dominated by tamarack and black spruce with sphagnum moss underneath.		

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
☒ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)			
☒ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)			
☒ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)			
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry-Season Water Table (C2)			
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on	☐ Crayfish Burrows (C8)			
☐ Drift Deposits (B3)	Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Algal Mat or Crust (B4)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)			
☐ Iron Deposits (B5)	☐ Recent Iron Reduction in Tilled	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial	Soils (C6)	☐ Shallow Aquitard (D3)			
Imagery (B7)	☐ Thin Muck Surface (C7)	☐ Microtopographic Relief (D4)			
☐ Sparsely Vegetated Concave	☐ Other (Explain in Remarks)	☒ FAC-Neutral Test (D5)			
Surface (B8)					

Field Observations:			Indicators of wetland hydrology present?	
Surface water present?	Yes	☐	Depth (inches):	_____
Water table present?	Yes	☒	Depth (inches):	0
Saturation present?	Yes	☒	Depth (inches):	0
(includes capillary fringe)			_____ Y	

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Surface water is present throughout the wetland between moss hummocks.

VEGETATION - Use scientific names of plants
Sampling Point:

CRR51010_612c2W

Tree Stratum			Plot Size (30 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Larix laricina</i>				50	Y	FACW
2	<i>Picea mariana</i>				35	Y	FACW
3							
4							
5							
6							
7							
8							
9							
10							
					85	= Total Cover	

Sapling/Shrub Stratum			Plot Size (15 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Ledum groenlandicum</i>				50	Y	OBL
2							
3							
4							
5							
6							
7							
8							
9							
10							
					50	= Total Cover	

Herb Stratum			Plot Size (5 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Maianthemum canadense</i>				10	Y	FACU
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
					10	= 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	10	25
Herb Stratum	2	5
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: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 75.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>50</u> x 1 =	<u>50</u>
FACW species	<u>85</u> x 2 =	<u>170</u>
FAC species	<u>0</u> x 3 =	<u>0</u>
FACU species	<u>10</u> x 4 =	<u>40</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>145</u> (A)	<u>260</u> (B)
Prevalence Index = B/A =		<u>1.79</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 wetland is dominated by tamarack and black spruce with sphagnum moss ground cover.

SOIL

Sampling Point: CRR51010_612c2W

[illegible]