

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/Country: Carlton Sampling Date: 5/29/2014
Applicant/Owner: Enbridge State: MN Sampling Point: CRR51010_627a2W
Investigator(s): KJA/JRT Section, Township, Range: _____
Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC
Slope (%): 0 - 2% Lat.: 46.618315 Long.: -92.514186 Datum: _____
Soil Map Unit Name: 534 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 wet meadow community is located in an existing powerline corridor next to a coniferous swamp. The area is dominated by hydrophytic vegetation with hydric soils and wetland hydrology present.	

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? <u>Y</u>		
Surface water present?	Yes	☐	Depth (inches):	<u> </u>	
Water table present?	Yes	☒	Depth (inches):	<u>0</u>	
Saturation present?	Yes	☒	Depth (inches):	<u>0</u>	
(includes capillary fringe)					

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

Remarks:

A high water table and saturation were present at the sample point.

VEGETATION - Use scientific names of plants
Sampling Point:

CRR51010_627a2W

Tree Stratum			Plot Size (30 ft)			Absolute % Cover	Dominant Species	Indicator Status
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
						0	= Total Cover	

Sapling/Shrub Stratum			Plot Size (15 ft)			Absolute % Cover	Dominant Species	Indicator Status
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
						0	= Total Cover	

Herb Stratum			Plot Size (5 ft)			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Calamagrostis canadensis</i>		50	Y	OBL			
2	<i>Typha angustifolia</i>		35	Y	OBL			
3	<i>Carex stricta</i>		10	N	OBL			
4	<i>Caltha palustris</i>		10	N	OBL			
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
						105	= 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	0	0
Sapling/Shrub Stratum	0	0
Herb Stratum	21	53
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

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

Prevalence Index Worksheet

Total % Cover of:

OBL species	105	x 1 =	105
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	105	(A)	105 (B)
Prevalence Index = B/A =			1.00

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 site is dominated by Canada bluejoint and narrow-leaf cattail with tussock sedge and marsh marigold present.

SOIL

Sampling Point: CRR51010_627a2W

[illegible]