

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 6/11/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRC5115_300b1U
 Investigator(s): JRT/KJA Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): CL
 Slope (%): 0 - 2% Lat.: 46.581162 Long.: -92.616196 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
 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 upland sample point is located in an active pasture near a small grove of quaking aspen. No indicators of wetland hydrology were observed. Soils were non-hydric. Dominant vegetation was non-hydrophytic.	

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 ☐ Depth (inches): _____ Water table present? Yes ☐ Depth (inches): _____ Saturation present? Yes ☐ 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:

CRC5115_300b1U

Tree Stratum				Plot Size (30 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Populus tremuloides</i>				10	Y	FAC	
2								
3								
4								
5								
6								
7								
8								
9								
10								
					10	=	Total Cover	

Sapling/Shrub Stratum				Plot Size (15 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Alnus incana</i>				5	Y	FACW	
2	<i>Populus tremuloides</i>				1	N	FAC	
3								
4								
5								
6								
7								
8								
9								
10								
					6	=	Total Cover	

Herb Stratum				Plot Size (5 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Antennaria neglecta</i>				40	Y	UPL	
2	<i>Poa pratensis</i>				15	Y	FACU	
3	<i>Anemone virginiana</i>				5	N	FACU	
4	<i>Eurybia macrophylla</i>				5	N	UPL	
5	<i>Taraxacum officinale</i>				5	N	FACU	
6	<i>Luzula multiflora</i>				5	N	FACU	
7	<i>Saxifraga pennsylvanica</i>				5	N	OBL	
8	<i>Tanacetum vulgare</i>				5	N	FACU	
9	<i>Carex gracillima</i>				5	N	FACU	
10								
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	2	5
Sapling/Shrub Stratum	1	3
Herb Stratum	18	45
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: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	5	x 1 =	5
FACW species	5	x 2 =	10
FAC species	11	x 3 =	33
FACU species	40	x 4 =	160
UPL species	45	x 5 =	225
Column totals	106	(A)	433 (B)
Prevalence Index = B/A =		<u>4.08</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 sample point is located in a pasture near a small grove of quaking aspen. Dominant species in the herb stratum include pussy toes and Kentucky bluegrass with several other forbs and a single sedge.

SOIL

Sampling Point: CRC5115_300b1U

[illegible]