

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 2016-09-02

Applicant/Owner: Enbridge State: Minnesota Sampling Point: CRC5161_200a2U

Investigator(s): DPT, MGH Section, Township, Range: S21, T48N, 17W

Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): VL Slope (%): 0-2%

Subregion (LRR or MLRA): _____ Latitude: 46.6201905766... Longitude: -92.49141812... Datum: NAD83

Soil Map Unit Name: 549 NWI Classification: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes

Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Area within a Wetland? <u>No</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	
Remarks: (Explain alternative procedures here or in a separate report.) No digging, existing road, potential buried utilities. Precipitation above normal based on WETS analysis.		

HYDROLOGY

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of two required)</u>	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>			
☐ 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 Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted/Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ Microtopographic Relief (D4)	
		☐ FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? <u>No</u>	Depth (inches) _____	Wetland Hydrology Present? <u>No</u>	
Water Table Present? _____	Depth (inches) _____		
Saturation Present? <u>No</u> (includes capillary fringe)	Depth (inches) _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No digging, could not verify water table.			

VEGETATION - Use scientific names of plants.

 Sampling Point: CRC5161_...

Tree Stratum	(Plot Size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
6.					
7.					
		<u>0</u> = Total Cover			
Sapling/Shrub Stratum	(Plot Size: <u>15</u>)				
1.					
2.					
3.					
4.					
5.					
6.					
7.					
		<u>0</u> = Total Cover			
Herb Stratum	(Plot Size: <u>5</u>)				
1.	Ambrosia artemisiifolia	20.00	Yes	FACU	
2.	Poa pratensis	20.00	Yes	FACU	
3.	Antennaria neglecta	10.00	No	FACU	
4.	Trifolium pratense	10.00	No	FACU	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
		<u>60</u> = Total Cover			
Woody Vine Stratum	(Plot Size: <u>30</u>)				
1.					
2.					
3.					
4.					
		<u>0</u> = Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)					

Dominance Test worksheet:
 Number of Dominant Species
 That Are OBL, FACW, or FAC: 0 (A)
 Total Number of Dominant
 Species Across All Strata: 2 (B)
 Percent of Dominant Species
 That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	0.00 x 1	<u>0</u>
FACW species	0.00 x 2	<u>0</u>
FACU species	60.00 x 3	<u>240</u>
UPL species	0.00 x 4	<u>0</u>
Column Totals	<u>60</u> (A)	<u>240</u> (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
no 2 - Dominance Test is > 50%
no 3 - Prevalence Index is ≤ 3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 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? No

SOIL

Sampling Point: CRC5161_...

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soil ³ :
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)	☐ Coast Prairie Redox (A16)(LRR K, L, R)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR K, L)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Dark Surface (S7) (LRR K, M)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)	☐ Polyvalue Below Surface (S8) (LRR K, L)
☐ Depleted Below Dark Surface (A11)	☐ Redox Dark Surface (F6)	☐ Thin Dark Surface (S9) (LRR K, L)
☐ Thick Dark Surface (A12)	☐ Depleted Dark Surface (F7)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)	☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
☐ Sandy Gleyed Matrix (S4)		☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Sandy Redox (S5)		☐ Red Parent Material (F21)
☐ Stripped Matrix (S6)		☐ Very Shallow Dark Surface (TF12)
☐ Dark Surface (S7) (LRR R, MLRA 149B)		☐ Other (explain in remarks)
Restrictive Layer (if observed): ☐	Hydric Soil Present? <u>No</u>	
Type: _____ Depth (inches): _____		
Remarks:		
No digging, soils assumed non-hydric based on veg/hydro.		

Site Photograph 1

Sampling Point: CRC5161_200a2U



Latitude: 46.6201990424158

Cowardin Classification: _____

Longitude: -92.4914317020145

Circular 39: _____

Direction: west

Eggers & Reed: _____

Remarks:

upland



Latitude: 46.6201860923754

Cowardin Classification: _____

Longitude: -92.4914348871377

Circular 39: _____

Direction: east

Eggers & Reed: _____

Remarks:

upland