

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2015-07-09
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CLC5004_200f1W
 Investigator(s): BEH/KAT Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2
 Subregion (LRR or MLRA): LRR K Latitude: 47.67220441 Longitude: -95.3913185 Datum: Minnesota State ...
 Soil Map Unit Name: 718C NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes
 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>Yes</u>	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a small shallow marsh depression within pastureland.		

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<u>yes</u> Surface Water (A1)	<u>yes</u> Water-Stained Leaves (B9)	<u>yes</u> Surface Soil Cracks (B6)
<u>yes</u> High Water Table (A2)	<u>yes</u> Aquatic Fauna (B13)	<u>yes</u> Drainage Patterns (B10)
<u>yes</u> Saturation (A3)	<u>yes</u> Marl Deposits (B15)	<u>yes</u> Moss Trim Lines (B16)
<u>yes</u> Water Marks (B1)	<u>yes</u> Hydrogen Sulfide Odor (C1)	<u>yes</u> Dry-Season Water Table (C2)
<u>yes</u> Sediment Deposits (B2)	<u>yes</u> Oxidized Rhizospheres on Living Roots (C3)	<u>yes</u> Crayfish Burrows (C8)
<u>yes</u> Drift Deposits (B3)	<u>yes</u> Presence of Reduced Iron (C4)	<u>yes</u> Saturation Visible on Aerial Imagery (C9)
<u>yes</u> Algal Mat or Crust (B4)	<u>yes</u> Recent Iron Reduction in Tilled Soils (C6)	<u>yes</u> Stunted/Stressed Plants (D1)
<u>yes</u> Iron Deposits (B5)	<u>yes</u> Thin Muck Surface (C7)	<u>yes</u> Geomorphic Position (D2)
<u>yes</u> Inundation Visible on Aerial Imagery (B7)	<u>yes</u> Other (Explain in Remarks)	<u>yes</u> Shallow Aquitard (D3)
<u>yes</u> Sparsely Vegetated Concave Surface (B8)		<u>yes</u> Microtopographic Relief (D4)
		<u>yes</u> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? <u>No</u>	Depth (inches) _____	Wetland Hydrology Present? <u>Yes</u>
Water Table Present? <u>Yes</u>	Depth (inches) <u>1</u>	
Saturation Present? <u>Yes</u> (includes capillary fringe)	Depth (inches) <u>0</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Soil is saturated at the surface.		

Sampling Point: CLC5004_...

Northcentral and Northeast Region – Version 2.0

SOIL

Sampling Point: CLC5004_...

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? Yes ☐	
Remarks: Soil is mucky peat underlain by depleted sandy clay loam with redox concentrations and gleyed depletions; the profile meets hydric soil indicators A11- Depleted Below Dark Surface and F3- Depleted Matrix.		