

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2016-07-28
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CLC5040_000RRa1W
 Investigator(s): mts mew Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Toeslope Local Relief (concave, convex, none): CC Slope (%): 3-7%
 Latitude: 47.5293621188... Longitude: -95.37027262...

Datum: NAD83
 Soil Map Unit Name: _____ NWI Classification: _____

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

Are Vegetation Yes, Soil Yes, or Hydrology Yes significantly disturbed? Are "Normal Circumstances" present? Yes _____

Are Vegetation, Soil, or Hydrology 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?	Yes	Is the Sampled Area within a Wetland? No If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	
Remarks: (Explain alternative procedures here or in a separate report.) No digging in rail corridor . Soils assumed hydric based on hydrology and hydrophytic vegetation		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot Size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	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 (A/B)
1. Salix interior	20	Yes	FACW	
2. Larix laricina	5	No	FACW	
3. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 60.00 x 1 60 FACW species 25.00 x 2 50 FACU species 15.00 x 3 0 UPL species 0.00 x 4 0 Column Totals 100 (A) 155 (B) Prevalence Index = B/A = 1.55
4. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot Size: _____)				Hydrophytic Vegetation Indicators: no 1 - Rapid Test for Hydrophytic Vegetation yes 2 - Dominance Test is > 50% yes 3 - Prevalence Index is ≤ 3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____
5. _____	_____	_____	_____	
Herb Stratum (Plot Size: 5 _____)				Hydrophytic Vegetation Present? Yes _____
1. Typha angustifolia	60	Yes	OBL	
2. Solidago gigantea	15	No	FAC	Hydrophytic Vegetation Present? Yes _____
3. Scirpus cyperinus	15	No	OBL	
4. Equisetum fluviatile	10	No	OBL	Hydrophytic Vegetation Present? Yes _____
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____
Woody Vine Stratum (Plot Size: _____)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____
2. _____	_____	_____	_____	
% Bare Ground in Herb Stratum _____				Hydrophytic Vegetation Present? Yes _____
Remarks:				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redox Features			Loc ²	Texture	Remarks
(inches)	Color (moist)	%	Color (moist)	%	Type ¹			

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 1cm Muck (A9) (LRR F, G, H)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Mucky Mineral (S1)

☐ 2.5cm Mucky Peat or Peat (S2)(LRR G, H)

☐ 5cm Mucky Peat or Peat (S3) (LRR F)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1) (LRR K, L)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

☐ High Plains Depressions (F16)

(MLRA 72 & 73 of LRR H)

Indicators for Problematic Hydric Soil³:

☐ 1cm Muck (A9) (LRR I, J)

☐ Coast Prairie Redox (A16)(LRR K, L, R)

☐ Dark Surface (S7) (LRR G)

☐ High Plains Depressions (F16)

(LRR H outside of MLRA 72 & 73)

☐ Reduced Vertic (F18)

☐ Red Parent Material (F21)

☐ Very Shallow Dark Surface (TF12)

☐ Other (explain in remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

☐

Type:

Depth (inches):

Hydric Soil Present? Yes

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

yes Surface Water (A1)

High Water Table (A2)

yes Saturation (A3)

Water Marks (B1)

Sediment Deposits (B2)

Drift Deposits (B3)

Algal Mat or Crust (B4)

Iron Deposits (B5)

Water-Stained Leaves (B9)

Inundation Visible on Aerial Imagery (B7)

Salt Crust (B11)

Aquatic Invertebrates (B13)

Hydrogen Sulfide Odor (C1)

Dry-Season Water Table (C2)

Oxidized Rhizospheres on Living Roots (C3)

(where not tilled)

Presence of Reduced Iron (C4)

Thin Muck Surface (C7)

Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

Surface Soil Cracks (B6)

Sparsely Vegetated Concave Surface (B8)

Drainage Patterns (B10)

Oxidized Rhizospheres on Living Roots (C3)

(where tilled)

Crayfish Burrows (C8)

Saturation Visible on Aerial Imagery (C9)

yes Geomorphic Position (D2)

yes FAC-Neutral Test (D5)

Frost-Heave Hummocks (D7) (LRR F)

Field Observations:

Surface Water Present? Yes

Water Table Present?

Saturation Present? Yes

(includes capillary fringe)

Depth (inches) 1

Depth (inches)

Depth (inches) 0

Wetland Hydrology Present? Yes

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

US Army Corps of Engineers

Great Plains Region – Version 2.0



Latitude: 47.5293662259798
Longitude: -95.3703053948426
Direction: N

Cowardin Classification: PEM
Circular 39: 2
Eggers & Reed: Fresh (Wet) Meadow

Remarks:



Latitude:
Longitude:
Direction:

Cowardin Classification:
Circular 39:
Eggers & Reed:

Remarks: