

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 2015-07-10
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: AI085a1U_R
 Investigator(s): DPT/ZSW Section, Township, Range: S26,T49,R26
 Landform (hillslope, terrace, etc.): Road shoulder Local Relief (concave, convex, none): Convex Slope (%): 2
 Subregion (LRR or MLRA): LRR K Latitude: 46.7107121134... Longitude: -93.59865663... Datum: Minnesota State ...
 Soil Map Unit Name: 625 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>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.) <u>Upland, road shoulder</u>		

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
☐ 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) _____ Water Table Present? <u>No</u> Depth (inches) _____ Saturation Present? <u>No</u> Depth (inches) _____ (includes capillary fringe)		Wetland Hydrology Present? <u>No</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: AI085a1U_R

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot Size: 30)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
Sapling/Shrub Stratum (Plot Size: 15)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
Herb Stratum (Plot Size: 5)			
1. Bromus inermis	30.00	Yes	UPL
2. Phleum pratense	30.00	Yes	FACU
3. Trifolium pratense	20.00	Yes	FACU
4. Lotus corniculatus	20.00	Yes	FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
Woody Vine Stratum (Plot Size: 30)			
1.			
2.			
3.			
4.			
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			
4			
Species Across All Strata: (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	0	
FACW species	0.00 x 2	0	
FACU species	0.00 x 3	280	
UPL species	30.00 x 4	150	
Column Totals	100 (A)	430 (B)	
Prevalence Index = B/A = 4.3			
Hydrophytic Vegetation Indicators:			
no 1 - Rapid Test for Hydrophytic Vegetation			
no 2 - Dominance Test is > 50%			
no 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.			
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 herbaeceous (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? _____			

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Mucky Mineral (S1)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Dark Surface (S7) (LRR R, MLRA 149B)

☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)

☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)

☐ 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)

Indicators for Problematic Hydric Soil³:

☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)

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

☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)

☐ Dark Surface (S7) (LRR K, M)

☐ Polyvalue Below Surface (S8) (LRR K, L)

☐ Thin Dark Surface (S9) (LRR K, L)

☐ Iron-Maganese Masses (F12) (LRR K, L, R)

☐ Piedmont Floodplain Soils (F19) (MLRA 149B)

☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)

☐ Red Parent Material (F21)

☐ Very Shallow Dark Surface (TF12)

☐ Other (explain in remarks)

Restrictive Layer (if observed):

☐

Type: _____

Depth (inches): _____

Hydric Soil Present? No _____

Remarks:

Road shoulder, no soil pit.



Latitude: 46.7106999177921

Cowardin Classification: _____

Longitude: -93.5986267962433

Circular 39: _____

Direction: North

Eggers & Reed: _____

Remarks:
No soils, road shoulder