

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 2015-07-09
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: AI053b1U_R
 Investigator(s): DPT/ZSW Section, Township, Range: 27, 50n, 27w
 Landform (hillslope, terrace, etc.): Side Slope Local Relief (concave, convex, none): Convex Slope (%): 5
 Subregion (LRR or MLRA): LRR M Latitude: 46.7860230943... Longitude: -93.61739639... Datum: Minnesota State ...
 Soil Map Unit Name: 292 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? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>No</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Upland		

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) _____	Wetland Hydrology Present? <u>No</u>	
Water Table Present?	<u>No</u> Depth (inches) _____		
Saturation Present? (includes capillary fringe)	<u>No</u> Depth (inches) _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: AI053b1U_R

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot Size: 30)	% Cover	Species?	Status	
1.					Number of Dominant Species
2.					That Are OBL, FACW, or FAC: 0 (A)
3.					Total Number of Dominant
4.					4
5.					Species Across All Strata: (B)
6.					Percent of Dominant Species
7.					That Are OBL, FACW, or FAC: 0 (A/B)
0 = Total Cover					Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot Size: 15)					Total % Cover of: Multiply by:
1.					OBL species 0.00 x 1 0
2.					FACW species 0.00 x 2 0
3.					FACU species 0.00 x 3 380
4.					UPL species 5.00 x 4 25
5.					Column Totals 100 (A) 405 (B)
6.					Prevalence Index = B/A = 4.05
7.					Hydrophytic Vegetation Indicators:
0 = Total Cover					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)
Herb Stratum (Plot Size: 5)					Problematic Hydrophytic Vegetation ¹ (Explain)
1.	Poa pratensis	25.00	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	Achillea millefolium	20.00	Yes	FACU	Definitions of Vegetation Strata:
3.	Trifolium pratense	20.00	Yes	FACU	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
4.	Phleum pratense	20.00	Yes	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
5.	Taraxacum officinale	10.00	No	FACU	Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
6.	Fragaria vesca	5.00	No	UPL	Woody vines - All woody vines greater than 3.28 ft in height.
7.					Hydrophytic Vegetation Present? _____
8.					
9.					
10.					
11.					
12.					
100 = Total Cover					
Woody Vine Stratum (Plot Size: 30)					
1.					
2.					
3.					
4.					
0 =Total Cover					
Remarks: (include photo numbers here or on a separate sheet.)					

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		
0-5	10YR 2 2	100					l	
5-11	10YR 4 2	95	10YR 4 6	5	C	M	sil	

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: Rock

Depth (inches): 11

Hydric Soil Present? Yes

Remarks:



Latitude: 46.7860230943624
Longitude: -93.6173964758344
Direction: East

Cowardin Classification: _____
Circular 39: _____
Eggers & Reed: _____

Remarks: