

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: L3R City/County: Marshall Sampling Date: 2015-06-05
Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-155n46w2-f_R1
Investigator(s): LEB/BCS Section, Township, Range: 155N 46W 2
Landform (hillslope, terrace, etc.): side slope Local Relief (concave, convex, none): LL Slope (%): 0-2
Subregion (LRR or MLRA): LRR F Latitude: 48.2751263631... Longitude: -96.53413021...
Datum: Minnesota State Plane North, NAD 83 (2011) U.S. feet
Soil Map Unit Name: I65A 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? YesAre 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.) The upland sample point is located in a planted alfalfa field upslope from a large wetland complex.		

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot Size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
		<u>0</u> = Total Cover		
Sapling/Shrub Stratum	(Plot Size: _____)			
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
		<u>0</u> = Total Cover		
Herb Stratum	(Plot Size: <u>5</u> _____)			
1.	<u>Medicago sativa</u>	<u>50.00</u>	<u>Yes</u>	<u>UPL</u>
2.	<u>Fragaria virginiana</u>	<u>20.00</u>	<u>Yes</u>	<u>FACU</u>
3.	<u>Bromus inermis</u>	<u>2.00</u>	<u>No</u>	<u>UPL</u>
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
		<u>72</u> = Total Cover		
Woody Vine Stratum	(Plot Size: _____)			
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
		<u>0</u> = Total Cover		
% Bare Ground in Herb Stratum <u>28</u>				

Dominance Test worksheet:
Number of Dominant Species _____
That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species _____
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 0
FACW species 0.00 x 2 0
FACU species 0.00 x 3 80
UPL species 52.00 x 4 260
Column Totals 72 (A) 340 (B)
Prevalence Index = B/A = 4.722222...

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.

Hydrophytic Vegetation Present? _____

Remarks:
The vegetation is dominated by planted alfalfa with scattered strawberry and smooth brome towards the edges of the field.

SOIL

Sampling Point: u-155n46...

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

Depth	Matrix	Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2 1	100					LFS	
14-26	2.5Y 3 1	98	7.5YR 4 4	2	C	M	LFS	

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Sandy Gleyed Matrix (S4)

☐ 1cm Muck (A9) (LRR I, J)

☐ Histic Epipedon (A2)

☐ Sandy Redox (S5)

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

☐ Black Histic (A3)

☐ Stripped Matrix (S6)

☐ Dark Surface (S7) (LRR G)

☐ Hydrogen Sulfide (A4)

☐ Loamy Mucky Mineral (F1) (LRR K, L)

☐ High Plains Depressions (F16)

☐ Stratified Layers (A5)

☐ Loamy Gleyed Matrix (F2)

(LRR H outside of MLRA 72 & 73)

☐ 1cm Muck (A9) (LRR F, G, H)

☐ Depleted Matrix (F3)

☐ Reduced Vertic (F18)

☐ Depleted Below Dark Surface (A11)

☐ Redox Dark Surface (F6)

☐ Red Parent Material (F21)

☐ Thick Dark Surface (A12)

☐ Depleted Dark Surface (F7)

☐ Very Shallow Dark Surface (TF12)

☐ Sandy Mucky Mineral (S1)

☐ Redox Depressions (F8)

☐ Other (explain in remarks)

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

☐ High Plains Depressions (F16)

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

☐ 5cm Mucky Peat or Peat (S3) (LRR F)

(MLRA 72 & 73 of LRR H)

Restrictive Layer (if present):

☐

Type:

Depth (inches):

Hydric Soil Present? No

Remarks:

The soil is dry and sandy with a small amount of redox deep in the profile. No indicators of hydric soil were observed.

HYDROLOGY

Wetland Hydrology Indicators:

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

☐ Surface Water (A1)

☐ Salt Crust (B11)

☐ Surface Soil Cracks (B6)

☐ High Water Table (A2)

☐ Aquatic Invertebrates (B13)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Saturation (A3)

☐ Hydrogen Sulfide Odor (C1)

☐ Drainage Patterns (B10)

☐ Water Marks (B1)

☐ Dry-Season Water Table (C2)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ Sediment Deposits (B2)

☐ Oxidized Rhizospheres on Living Roots (C3)

(where tilled)

☐ Drift Deposits (B3)

(where not tilled)

☐ Crayfish Burrows (C8)

☐ Algal Mat or Crust (B4)

☐ Presence of Reduced Iron (C4)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Iron Deposits (B5)

☐ Thin Muck Surface (C7)

☐ Geomorphic Position (D2)

☐ Water-Stained Leaves (B9)

☐ Other (Explain in Remarks)

☐ FAC-Neutral Test (D5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Frost-Heave Hummocks (D7) (LRR F)

Field Observations:

Surface Water Present?

No

Depth (inches)

Water Table Present?

No

Depth (inches)

Saturation Present?

No

Depth (inches)

(includes capillary fringe)

Wetland Hydrology Present?

No

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

Remarks:

No indicators of wetland hydrology were observed.

Site Photograph 1

Sampling Point: u-155n46w2-f_R1