

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: L3R City/County: Marshall Sampling Date: 2015-06-04
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-156n46w34-e1
 Investigator(s): KRG/ACM Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): talf Local Relief (concave, convex, none): _____ linear l... Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 48.2911325 Longitude: -96.547504
 Datum: Minnesota State Plane North, NAD 83 (2011) U.S. feet

Soil Map Unit Name: I24A NWI Classification: PEMA
 Yes _____

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

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?	
Hydric Soil Present?	<u>No</u>		<u>No</u>
Wetland Hydrology Present?	<u>No</u>		If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) This point was taken to document an NWI-mapped feature that is upland. The area is a crop field planted in wheat.			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot Size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species _____
2. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>0</u> (A)
3. _____	_____	_____	_____	Total Number of Dominant _____
4. _____	_____	_____	_____	Species Across All Strata: <u>1</u> (B)
	<u>0</u> = Total Cover			Percent of Dominant Species _____
Sapling/Shrub Stratum (Plot Size: _____)				That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____	_____	_____	_____	Prevalence Index worksheet:
2. _____	_____	_____	_____	Total % Cover of: _____ Multiply by:
3. _____	_____	_____	_____	OBL species <u>0.00</u> x 1 <u>0</u>
4. _____	_____	_____	_____	FACW species <u>0.00</u> x 2 <u>0</u>
5. _____	_____	_____	_____	FACU species <u>0.00</u> x 3 <u>0</u>
	<u>0</u> = Total Cover			UPL species <u>0</u> x 4 <u>0</u>
Herb Stratum (Plot Size: _____)				Column Totals <u>0</u> (A) <u>0</u> (B)
1. <u>Triticum aestivum</u>	<u>90.00</u>	<u>Yes</u>	_____	Prevalence Index = B/A = <u>N/A</u>
2. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:
3. _____	_____	_____	_____	_____ 1 - Rapid Test for Hydrophytic Vegetation
4. _____	_____	_____	_____	<u>no</u> 2 - Dominance Test is > 50%
5. _____	_____	_____	_____	<u>no</u> 3 - Prevalence Index is ≤ 3.0 ¹
6. _____	_____	_____	_____	_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
7. _____	_____	_____	_____	Problematic Hydrophytic Vegetation ¹
8. _____	_____	_____	_____	(Explain)
9. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10. _____	<u>90</u> = Total Cover			
Woody Vine Stratum (Plot Size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
% Bare Ground in Herb Stratum <u>10</u>				Hydrophytic Vegetation Present? _____
Remarks: The vegetation is dominated by planted wheat.				

SOIL

Sampling Point: u-156n46...

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		
0-14	10YR 2 1	100					LFS	loamy fine sand
14-20	10YR 2 1	75					LFS	loamy fine sand, mixed matrix
14-20	10YR 4 2	25					LFS	loamy fine sand, mixed matrix

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 1cm Muck (A9) (LRR F, G, H) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 2.5cm Mucky Peat or Peat (S2)(LRR G, H) <input type="checkbox"/> 5cm Mucky Peat or Peat (S3) (LRR F)		<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> High Plains Depressions (F16)		Indicators for Problematic Hydric Soil³: <input type="checkbox"/> 1cm Muck (A9) (LRR I, J) <input type="checkbox"/> Coast Prairie Redox (A16)(LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR G) <input type="checkbox"/> High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (explain in remarks)	
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): <input type="checkbox"/> Type: _____ Depth (inches): _____	Hydric Soil Present? <u>No</u>
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Remarks:
Soil consists of loamy fine sand throughout the profile. No hydric soil indicators were observed.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Salt Crust (B11) _____ High Water Table (A2) _____ Aquatic Invertebrates (B13) _____ Saturation (A3) _____ Hydrogen Sulfide Odor (C1) _____ Water Marks (B1) _____ Dry-Season Water Table (C2) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ (where not tilled) _____ Algal Mat or Crust (B4) _____ Presence of Reduced Iron (C4) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Water-Stained Leaves (B9) _____ Other (Explain in Remarks) _____ Inundation Visible on Aerial Imagery (B7)		<u>Secondary Indicators (minimum of two required)</u> _____ 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) _____ Geomorphic Position (D2) _____ FAC-Neutral Test (D5) _____ Frost-Heave Hummocks (D7) (LRR F)
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Field Observations: Surface Water Present? <u>No</u> Depth (inches) _____ Water Table Present? <u>No</u> Depth (inches) _____ Saturation Present? <u>Yes</u> Depth (inches) <u>18</u> (includes capillary fringe)	Wetland Hydrology Present? <u>No</u>
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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-156n46w34-e1





Latitude: 48.2911325

Cowardin Classification: _____

Longitude: -96.547504

Circular 39: _____

Direction: E

Eggers & Reed: _____

Remarks:

US Army Corps of Engineers

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Site Photograph 2

Sampling Point: u-156n46w34-e1

Latitude: _____

Cowardin Classification: _____

Longitude: _____

Circular 39: _____

Direction: _____

Eggers & Reed: _____

Remarks:

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0