

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: SPP City/County: Polk Sampling Date: 7/8/2015
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: PO146a1U
 Investigator(s): KRG/JRT Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): talf Local Relief (concave, convex, none): None
 Slope (%): 2 Latitude: 47.7318156324772 Longitude: -95.8005262725947 Datum: Minnesota State Plane North, NAD 83 (2011) U.S. f...
 Soil Map Unit Name: I668B NWI Classification: PEMA

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks):
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present?
 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?	<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 is documenting an area mapped as an NWI wetland which is actually upland. The location is an agricultural field planted in soybeans. No wetland hydrology, hydrophytic vegetation, or hydric soils were observed.

VEGETATION - Use scientific names of plants.

Sampling Point: PO146a1U

	Absolute % Cover	Dominant Species?	Indicator Status																					
Tree Stratum (Plot Size: <u>30</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B) Prevalence Index worksheet: Total % Cover of: <table border="0"> <tr> <td>OBL species</td> <td><u>0.00</u></td> <td>x 1</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>5.00</u></td> <td>x 2</td> <td><u>10</u></td> </tr> <tr> <td>FACU species</td> <td><u>0.00</u></td> <td>x 3</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>50.00</u></td> <td>x 4</td> <td><u>250</u></td> </tr> <tr> <td>Column Totals</td> <td><u>55</u></td> <td>(A)</td> <td><u>260</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>4.7272727...</u>	OBL species	<u>0.00</u>	x 1	<u>0</u>	FACW species	<u>5.00</u>	x 2	<u>10</u>	FACU species	<u>0.00</u>	x 3	<u>0</u>	UPL species	<u>50.00</u>	x 4	<u>250</u>	Column Totals	<u>55</u>	(A)	<u>260</u> (B)
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1. _____	_____	_____	_____																					
2. _____	_____	_____	_____																					
3. _____	_____	_____	_____																					
4. _____	_____	_____	_____																					
5. _____	_____	_____	_____																					
<u>0</u> = Total Cover																								
Sapling/Shrub Stratum (Plot Size: <u>15</u>)																								
1. _____	_____	_____	_____																					
2. _____	_____	_____	_____																					
3. _____	_____	_____	_____																					
4. _____	_____	_____	_____																					
5. _____	_____	_____	_____																					
<u>0</u> = Total Cover																								
Herb Stratum (Plot Size: <u>5</u>)																								
1. <u>Glycine max</u>	<u>50.00</u>	<u>Yes</u>	_____																					
2. <u>Equisetum hyemale</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>																					
3. _____	_____	_____	_____																					
4. _____	_____	_____	_____																					
5. _____	_____	_____	_____																					
6. _____	_____	_____	_____																					
7. _____	_____	_____	_____																					
8. _____	_____	_____	_____																					
9. _____	_____	_____	_____																					
10. _____	_____	_____	_____																					
<u>55</u> = Total Cover																								
Woody Vine Stratum (Plot Size: <u>30</u>)																								
1. _____	_____	_____	_____																					
2. _____	_____	_____	_____																					
<u>0</u> = Total Cover																								
Remarks: (Include photo numbers here or on a separate sheet.)																								
Vegetation is planted soybeans. Bare soil makes up about 50% cover.																								

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

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? _____

SOIL

Sampling Point: PO146a1U

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		
0-12	10YR 2 1	100					sl	
12-18	10YR 3 4	100					s	

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)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)

- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soil³:

- Coast Prairie Redox (A16)(LRR K, L, R)
- Dark Surface (S7) (LRR K, M)
- Iron-Maganese Masses (F12) (LRR K, L, R)
- Very Shallow Dark Surface (TF12)
- Other (explain in remarks)

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? No

Remarks:

Soil consists of sandy loam over sand, with no hydric soil indicators observed.

Wetland Hydrology Indicators:

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

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thick Muck Surface
- Gauge or Well Water
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted/Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

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 wetland hydrology indicators were observed.



Latitude: 47.7318056161029

Cowardin Classification: _____

Longitude: -95.8005130291877

Circular 39: _____

Direction: SE

Eggers & Reed: _____

Remarks:

Empty rectangular box for recording remarks.