

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: SPP City/County: Polk Sampling Date: 7/15/2015  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-149n39w24-c1  
 Investigator(s): LEB/ACM Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): ditch Local Relief (concave, convex, none): Convex  
 Slope (%): 2 Latitude: 47.7170024626401 Longitude: -95.5872368440922 Datum: Minnesota State Plane North, NAD 83 (2011) U.S. f...  
 Soil Map Unit Name: 296 NWI Classification: \_\_\_\_\_

- 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>Yes</u>	<b>Is the Sampled Area</b>	
Hydric Soil Present?	<u>Yes</u>	<b>within a Wetland?</b>	<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>	If yes, optional Wetland Site ID:	_____
Remarks: (Explain alternative procedures here or in a separate report.)			
The wetland is a fresh wet meadow located in a roadside ditch between a soybean field and two gravel roads.			

**VEGETATION - Use scientific names of plants.**

Sampling Point: w-149n39...

Tree Stratum (Plot Size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>
1. _____	_____	_____	_____	Number of Dominant Species _____
2. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>1</u> (A)
3. _____	_____	_____	_____	Total Number of Dominant _____
4. _____	_____	_____	_____	Species Across All Strata: <u>1</u> (B)
5. _____	_____	_____	_____	Percent of Dominant Species _____
	<u>0</u> = Total Cover			That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
<b>Sapling/Shrub Stratum (Plot Size: _____)</b>				<b>Prevalence Index worksheet:</b>
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species <u>32.00</u> x 1 <u>32</u>
3. _____	_____	_____	_____	FACW species <u>40.00</u> x 2 <u>80</u>
4. _____	_____	_____	_____	FACU species <u>4.00</u> x 3 <u>16</u>
5. _____	_____	_____	_____	UPL species <u>0.00</u> x 4 <u>0</u>
	<u>0</u> = Total Cover			Column Totals <u>91</u> (A) <u>173</u> (B)
				Prevalence Index = B/A = <u>1.9010989...</u>
<b>Herb Stratum (Plot Size: _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>
1. <u>Phalaris arundinacea</u>	<u>25.00</u>	<u>Yes</u>	<u>FACW</u>	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. <u>Scirpus atrovirens</u>	<u>15.00</u>	<u>No</u>	<u>OBL</u>	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%
3. <u>Equisetum arvense</u>	<u>15.00</u>	<u>No</u>	<u>FAC</u>	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
4. <u>Carex tenera</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	<input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. <u>Beckmannia syzigachne</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6. <u>Cicuta maculata</u>	<u>5.00</u>	<u>No</u>	<u>OBL</u>	
7. <u>Agrostis gigantea</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
8. <u>Sonchus arvensis</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>	
9. <u>Taraxacum officinale</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>	
10. <u>Alisma triviale</u>	<u>2.00</u>	<u>No</u>	<u>OBL</u>	
	<u>91</u> = Total Cover			
<b>Woody Vine Stratum (Plot Size: _____)</b>				<b>Hydrophytic Vegetation Present?</b> _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)				
The vegetation is dominated by reed canary grass.				

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**SOIL**

Sampling Point: w-149n3...

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 <sup>1</sup>	Loc <sup>2</sup>		

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

<sup>2</sup>Location: 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 Soil<sup>3</sup>:**

- 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? Yes \_\_\_\_\_

Remarks:  
Soils could not be sampled due to the location in a roadside ditch; soils are assumed to be hydric based on the landscape position and dominance of hydrophytic vegetation.

**Wetland Hydrology Indicators:**

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

Secondary Indicators (minimum of two required)

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Surface Water (A1)             | <input type="checkbox"/> Water-Stained Leaves (B9)                  | <input type="checkbox"/> Surface Soil Cracks (B6)                  |
| <input checked="" type="checkbox"/> High Water Table (A2)          | <input type="checkbox"/> Aquatic Fauna (B13)                        | <input type="checkbox"/> Drainage Patterns (B10)                   |
| <input checked="" type="checkbox"/> Saturation (A3)                | <input type="checkbox"/> True Aquatic Plants                        | <input type="checkbox"/> Dry-Season Water Table (C2)               |
| <input type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |
| <input type="checkbox"/> Sediment Deposits (B2)                    | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B3)                       | <input type="checkbox"/> Presence of Reduced Iron (C4)              | <input type="checkbox"/> Stunted/Stressed Plants (D1)              |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input checked="" type="checkbox"/> Geomorphic Position (D2)       |
| <input type="checkbox"/> Iron Deposits (B5)                        | <input type="checkbox"/> Thick Muck Surface                         | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Water                        |  |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   | <input type="checkbox"/> Other (Explain in Remarks)                 |  |

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ Depth (inches) <sup>2</sup> \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ Depth (inches) 0 \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ Depth (inches) 0 \_\_\_\_\_

(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_

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

Remarks:  
Surface water at a depth of 1-2 inches is present throughout the lowest portions of the wetland.