WETLAN	ND DETERMINATION DATA	FORM - North Central a	nd Northeast Region		
Project/Site: SPP City/County: Wadena		Sampling Date: 2016-07-25			
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: u-138n33w	11-aa1	
Investigator(s): DPT, MGH	Section, Townsh	ip, Range: <u>S11, T138N, R33</u>	W		
Landform (hillslope, terrace, etc.): Rise		Local Relief (concave, cor	vex, none): <u>VL</u> Slope (%): <u>0</u>	)-2%	
Subregion (LRR or MLRA):	Latitude: 4	6.7863665847 Long	itude: <u>-94.81071067</u> Datum: <u>NAD83</u>		
Soil Map Unit Name: 543			NWI Classification: PSS1C		
Are climatic/hydrologic conditions on the s	site typical for this time of year	? (if no, explain in Remark	s): <u>No</u>		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydr	rology <u>No</u> significantly distur	bed? Are "Normal Circums	tances" present? Yes		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrole	logy <u>No</u> naturally problemati	c? (If needed, explain any	answers in Remarks)		
SUMMARY OF FINDINGS - Attach site n	map showing sampling point lo	ocations, transects, import	ant features, etc.		
Hydrophytic Vegetation Present?	No	Is the Sampled Area			
Hydric Soil Present?	No	within a Wetland?	No		
Wetland Hydrology Present?	No	If yes, optional Wetland S	ite ID:		
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two	o required)	
Primary Indicators (minimum of one is req	guired; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leave	es (B9)	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Oc	lor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospher	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced	d Iron (C4)	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reductio	on in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (	C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Re	marks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present?	<u>No</u> Depth (inches)				
Water Table Present?	Depth (inches)				
Saturation Present?	No Depth (inches)	)	Wetland Hydrology Present? <u>N</u>	10	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, m	ionitoring well, aerial photos, p	previous inspections), if ava	ilable:		

Remarks:

No digging, could not confirm/deny water table.

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

Sampling Point: u-138n33...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
···	0	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15 )	-			FACW species 0.00 x 2 0
				FACU species 50.00 x 3 200
1				UPL species 10.00 x 4 50
2			·	
3				(*)/(*)/
4				Prevalence Index = $B/A = \frac{4.16666666}{4.1666666666666666666666666666666666666$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	0	_ = Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1. Trifolium pratense	25.00	Yes	FACU	supporting data in Remarks or on a separate sneet)
2. Phleum pratense	15.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Bromus inermis	10.00	No	UPL	Indicators of hydric soil and wetland hydrology must be present, unless
4. Taraxacum officinale	10.00	No	FACU	disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7			_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8				height (DBH), regardless of height.
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
		_		or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaeceous (non-woody) plants, regardless of size, and
11				woody plants less than 3.28 ft tall.
12				-
	60	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30 )				
1	·		_	-
2		_	_	Hydrophytic
3.				Vegetation No
4.				
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	)			•
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Northcentral and Northeast Region – Version 2.0

#### SOIL

Sampling Po	int: u-1	L38n3	3
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Depth Matrix		Redox F	eatures					
(inches) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
	·							
	·							
	M=Reduced Ma	trix, MS=Masked Sand Gra	iins.				<sup>2</sup> Location: PL=Pore Lining, M=Matr	
Hydric Soil Indicators:						Indicators for Pro	blematic Hydric Soil <sup>3</sup> :	
Histosol (A1)		Polyvalue Below S 149B)	urface (S	8) <b>(LRR R,</b>	MLRA	2 cm Muck (A	A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Epipedon (A2)		Thin Dark Surface	(S9) <b>(LRR</b>	R, MLRA	149B)	Coast Prairie	Redox (A16)( <b>LRR K, L, R</b> )	
Black Histic (A3)		Loamy Mucky Mir	neral (F1)	(LRR K, L)		5 cm Mucky	Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydrogen Sulfide (A4)		Loamy Gleyed Ma	trix (F2)			Dark Surface	(S7) ( <b>LRR K, M</b> )	
Stratified Layers (A5)		Depleted Matrix (	F3)			Polyvalue Be	low Surface (S8) (LRR K, L)	
Depleted Below Dark Surface (A11)	)	<ul> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> </ul>				<ul> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Maganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> </ul>		
Thick Dark Surface (A12)								
Sandy Mucky Mineral (S1)								
Sandy Gleyed Matrix (S4)			. ,			Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)	
Sandy Redox (S5)						Red Parent N	Aaterial (F21)	
Stripped Matrix (S6)							Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 14	9B)					Other (explai	n in remarks)	
Restrictive Layer (if observed):								
Type:					н	lydric Soil Present? No	<u> </u>	
Depth (inches):								
Remarks:				I				
No digging, soils assumed non-hydric bas	ed on veg/hyd	ro.						

# Site Photograph 1

Sampling Point: <u>u-138n33w11-aa1</u>



Latitude: 46.7863689735968

Longitude: -94.8107152060557

Direction: west

Remarks: upland Cowardin Classification:

Circular 39: \_\_\_\_ Eggers & Reed: \_\_\_

# Site Photograph 2



Latitude: 46.7863724520866

Longitude: -94.8107182235409

Direction: east

Remarks: upland Cowardin Classification:

Circular 39:

### Eggers & Reed: