WETLA	ND DET		FORM - North Ce	entral a	and Northeast R	egion			
Project/Site: SPP		City/County: <u>Aitkin</u>	Sampling Date: <u>2016-08-10</u>						
Applicant/Owner: Enbridge		State: Minnesota			Sampling Point: w-50n26w6-d1				
Investigator(s): ZCW, MGH		Section, Townshi	ip, Range: <u>56, T50</u>	v					
Landform (hillslope, terrace, etc.): Depres	sion		Local Relief (conc	nvex, none): CC		Slope (%): 0-2	2%		
Subregion (LRR or MLRA):		Latitude: 40	gitude: -93.68152	-93.68152650 Datum: NAD83					
Soil Map Unit Name: 504B							WI Classification: N/A		
Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No									
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes									
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> 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?		Yes Is the Sampled Area						÷	
Hydric Soil Present?		Yes within a Wetland? Yes							
Wetland Hydrology Present?		Yes	If yes, optional W	etland	Site ID:	w-50n2	26w6-d		
Climatic conditions are "wet" based on the results of a WETS analysis.									
HYDROLOGY									
Wetland Hydrology Indicators:					Secondary	Indicators (mir	nimum of two	required)	
Primary Indicators (minimum of one is re	auired:	check all that apply)			Sur	face Soil Cracks (E	36)		
Surface Water (A1)		Water-Stained Leave	es (B9)			nage Patterns (B:			
High Water Table (A2)				Moss Trim Lines (B16)					
Saturation (A3)				Dry-Season Water Table (C2)					
Water Marks (B1)				r (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3			)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	ft Deposits (B3) Presence of Reduced Iron (C4)				Stunted/Stressed Plants (D1)				
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)				Yes Geomorphic Position (D2)				
Iron Deposits (B5)	B5) Thin Muck Surface (C7)				Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)				Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)					yes_fac-	Neutral Test (D5)			
Field Observations:									
Surface Water Present?	No	Depth (inches)	)						
Water Table Present?	No	Depth (inches)	)						
Saturation Present?	No	Depth (inches)	)		Wetland Hydrol	ogy Present?	Yes	<u>.                                    </u>	
(includes capillary fringe)									

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

Remarks:

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

Sampling Point: w-50n26w...

		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: 3 (A)		
2.					Total Number of Dominant		
3.					Species Across All Strata: 3 (B)		
4.			_		Percent of Dominant Species		
5.					That Are OBL, FACW, or FAC: 100 (A/B)		
6.					Prevalence Index worksheet:		
_			_		Total % Cover of: Multiply by:		
		0	= Total Cover		OBL species 0.00 x 1 0		
Sapling/Shrub Stratum	(Plot Size: 15 )		_		FACW species 110.00 x 2 220		
1. Populus tremuloides	· · · · · · · · · · · · · · · · · · ·	35.00	Yes	FAC	FACU species 0.00 x 3 0		
2. Acer rubrum		20.00	Yes	FAC	UPL species 0.00 x 4 0		
3. Quercus bicolor		10.00	 No	_	Column Totals 165 (A) 385 (B)		
4.					Prevalence Index = B/A = 2.3333333		
					Hydrophytic Vegetation Indicators:		
5 6.					1 - Rapid Test for Hydrophytic Vegetation		
7.					yes 2 - Dominance Test is > 50%		
/		65	= Total Cover		yes 3 - Prevalence Index is $\leq 3.0^{1}$		
Herb Stratum (Plot Size:	:5 )				4 - Morphological Adaptations <sup>1</sup> (Provide		
1. Calamagrostis canade		100.00	Yes	FACW	4 - MOrphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
					– Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2							
					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless		
					disturbed or problematic.		
					Definitions of Vegetation Strata:		
					-		
					Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast 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							
11					Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.		
1							
		100	_ = Total Cover				
Woody Vine Stratum (P	lot Size: 30 )						
1.							
2.					Hydrophytic		
3.					Vegetation Proceet2 Yes		
4.					Present?		
···		0	=Total Cover		1		
Bomarks: (include phot	o numbers here or on a separa						
Remarks: (include phot	o numbers here or on a separa	të sheet.)					

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Northcentral and Northeast Region – Version 2.0

## SOIL

		depth nee	ded to document the			nfirm th	e absence of indic	ators.)	
Depth (i.e.b.e.)	Matrix	0/		Feature		2	<b>T</b> . (	Derrorde	
(inches) 0-3	Color (moist) 10YR 3 1	% 100	Color (moist)	%	lype*	Loc <sup>2</sup>	Texture FSL	Remarks	
3-24	10YR 6 2	- <u>100</u> - 85	10YR 5 6	15	с —	M	SCL		
<u>J-24</u>		_ 05					<u> </u>		
							·		
·							·		
·							·		
							·		
							·		
·									
<sup>1</sup> Type: C=Concentr	ration, D=Depletion, RM=	Reduced Ma	trix, MS=Masked Sand G	 rains.			·	<sup>2</sup> Location: PL=Pore Lining, M=Matri>	
Hydric Soil Indicat							Indicators for Pro	oblematic Hydric Soil <sup>3</sup> :	
Histosol (A1)			Polyvalue Below <b>149B)</b>	Surface (	S8) <b>(LRR R</b>	, MLRA	2 cm Muck	(A10) ( <b>LRR K, L, MLRA 149B</b> )	
	ic Epipedon (A2)			140B)	Coast Prairie Redox (A16)(LRR K, L, R)				
Black Histic (			Loamy Mucky M			-	_	/ Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydrogen Su			Loamy Gleyed M			1		е (S7) (LRR K, M)	
Stratified Lav			Depleted Matrix				Polyvalue Below Surface (S8) (LRR K, L)		
	low Dark Surface (A11)		Redox Dark Surfa				Thin Dark Surface (S9) (LRR K, L)		
Thick Dark S			Depleted Dark Sur		•		Iron-Maganese Masses (F12) (LRR K, L, R)		
-			Redox Depressio	-	)			oodplain Soils (F19) <b>(MLRA 149B)</b>	
	y Mineral (S1)			IIS (F8)			_		
	d Matrix (S4)						_	c (TA6) <b>(MLRA 144A, 145, 149B)</b>	
Sandy Redo	< (S5)						Red Parent	Material (F21)	
Stripped Ma	trix (S6)						Very Shallow	w Dark Surface (TF12)	
Dark Surface	e (S7) <b>(LRR R, MLRA 149E</b>	i)					🗌 Other (expla	ain in remarks)	
Restrictive Layer (i	f observed):		]		T				
Туре:							Hydric Soil Present? Y	/es	
Depth (in	ches):						<u>-</u>		
Remarks:					I				

## Site Photograph 1



Latitude: 46.8531649886136

Longitude: -93.6814845074841

Cowardin Classification: PSS

Circular 39: 1

Remarks:

Direction: South

Eggers & Reed: Seasonally Flooded Basin

Site Photograph 2



Latitude: 46.8531651981611

Longitude: -93.6814847589412

Cowardin Classification: PSS

Circular 39: 1

Remarks:

Direction: North

Eggers & Reed: Seasonally Flooded Basin