WETL	AND DETERN	INATION DATA I	FORM - North Central	and Northeast Region	1			
Project/Site: SPP	City,	County: <u>Aitkin</u>		Sampling Date: 2016-08-23				
Applicant/Owner: Enbridge			State: Minnesota	Sampli	ng Point: <u>w-50n26w18-a</u>	əf1		
Investigator(s): ZCW, MGH		_ Section, Townshi	p, Range: <u>S18, T50N, R2</u>	6W				
Landform (hillslope, terrace, etc.): Depr	ression		Local Relief (concave, c	onvex, none): <u>CC</u>	Slope (%): <u>0-2</u> 9	%		
Subregion (LRR or MLRA):		Latitude: 46	5.8180088140 Loi	ngitude: -93.67806787	Datum: NAD83			
Soil Map Unit Name: 204B		_		NWI Cla	ssification: N/A			
Are climatic/hydrologic conditions on t	he site typical	for this time of year	? (if no, explain in Rema	rks):	No	_		
Are Vegetation <u>No</u> , Soil <u>No</u> , or H	ydrology <u>No</u>	significantly distur	bed? Are "Normal Circu	mstances" present? Yes	-			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd	lrology <u>No</u> n	aturally problemati	c? (If needed, explain a	ny answers in Remarks)				
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present?	Ye	es	Is the Sampled Area					
Hydric Soil Present?	Ye	Yes within a			Yes			
Wetland Hydrology Present?	Yes If yes, optional Wetlan			d Site ID:	w-50n26w18-af			
Remarks: (Explain alternative procedu	res here or in a	separate report.)						
HYDROLOGY				CocondonuIndica	tor (minimum of two r			
Wetland Hydrology Indicators:				Secondary Indica	<u>tors (minimum of two re</u>	<u>equirea)</u>		
Primary Indicators (minimum of one is	required; chec	<u>k all that apply)</u>			il Cracks (B6)			
Surface Water (A1)	rface Water (A1) Water-Stained Leaves (B			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 Odor (C1)			Crayfish Burrows (C8)				
Sediment Deposits (B2)				Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)				
	gal Mat or Crust (B4) Recent Iron Reduction in Til			<u>Yes</u> Geomorphic Position (D2)				
Iron Deposits (B5)		_ Thin Muck Surface (		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)				Microtopographic Relief (D4) YeS FAC-Neutral Test (D5)				
Field Observations:	5)			<u>yee neutra</u>				
Surface Water Present?	No	Depth (inches)						
Water Table Present?	No	Depth (inches)						
Saturation Present?	No	Depth (inches)		Wetland Hydrology P	resent? Yes			
(includes capillary fringe)		Depth (menes)			<u></u>	-		
Describe Recorded Data (stream gauge	monitoring	ell aerial photos p	revious inspections) if a	vailable:				
	,	, ac.ia. priocos, p						

Remarks:

## **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. Fraxinus nigra	45.00	Yes	FACW	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:	
7				Total % Cover of: Multiply by:	
	45	= Total Cover		OBL species $0.00 \times 1 = 0$	
Sapling/Shrub Stratum (Plot Size: 15 )				FACW species 65.00 x 2 130	
- Eravinus nigra	20.00	Yes	FACW	· <u> </u>	
	20.00	103	IACW		
2					
3				Column Totals $100$ (A) $235$ (B)	
4				Prevalence Index = $B/A = 2.35$	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				yes 2 - Dominance Test is > 50%	
	20	= Total Cover		<u>yes</u> 3 - Prevalence Index is $\leq 3.0^1$	
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations <sup>1</sup> (Provide	
1. Athyrium angustum	25.00	Yes	FAC	supporting data in Remarks or on a separate sheet)	
2. Equisetum arvense	10.00	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3				1 Indicators of hydric soil and wetland hydrology must be present, unless	
4				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					
11			·	Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
12					
	35	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: 30 )					
1				4	
2.				Hydrophytic	
3.				Vegetation Present? Yes	
4.					
···	0	=Total Cover			
Remarks: (include photo numbers here or on a separate sheet					

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## SOIL

-	tion: (Describe to the	depth nee				nfirm th	e absence of inc	dicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 3 1	_ 100			.,pc	200	SL	
3-24	10YR 5 2	95	10YR 4 8	5	с	М	SL	
						·		
						·		
						·	·	
						·		
						·		
				_				
<sup>1</sup> Type: C=Concent	tration, D=Depletion, RM	Reduced Ma	trix, MS=Masked Sand G	rains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indica	tors:		Debuglue Deleur	Curfo oo /			Indicators for	Problematic Hydric Soil <sup>3</sup> :
Histosol (A1	L)		Polyvalue Below <b>149B)</b>	Surface (	56) (LKK K	, WILKA	🗌 2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epipe	don (A2)		Thin Dark Surface	e (S9) <b>(LR</b>	R R, MLRA	149B)	Coast Pra	airie Redox (A16)( <b>LRR K, L, R</b> )
Black Histic	(A3)		Loamy Mucky M	ineral (F1	) (LRR K, L)	)	5 cm Mu	cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen S	ulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surf	face (S7) ( <b>LRR K, M</b> )
Stratified La	ayers (A5)		Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
Depleted Be	elow Dark Surface (A11)		Redox Dark Surfa	ace (F6)			Thin Dark	Surface (S9) ( <b>LRR K, L</b> )
Thick Dark S	Surface (A12)		Depleted Dark Su	urface (F7	)		Iron-Mag	anese Masses (F12) (LRR K, L, R)
Sandy Mucl	ky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont	Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Gleye	ed Matrix (S4)						Mesic Spo	odic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy Redo	ox (S5)						Red Pare	nt Material (F21)
Stripped Ma	atrix (S6)						Very Sha	llow Dark Surface (TF12)
Dark Surfac	e (S7) <b>(LRR R, MLRA 1498</b>	3)					Other (e>	xplain in remarks)
Restrictive Layer (	if observed):		]					
Туре:						1	Hydric Soil Present?	Yes
Depth (ir	nches):						•	
Remarks:					I			

Site Photograph 1



Latitude: 46.8180050421942

Longitude: -93.6780683790275

Cowardin Classification: PFO

Circular 39: 1

Remarks:

Direction: North

Eggers & Reed: Seasonally Flooded Basin

Site Photograph 2



Latitude: 46.8180047488276

Longitude: -93.6780690495797

Cowardin Classification: PFO

Circular 39: 1

Remarks:

Direction: West

Eggers & Reed: Seasonally Flooded Basin