	WETLAND DETERMINATION DATA FORM - North Cen			•
Project/Site: SPP	City/Cou	ınty: <u>Aitkin</u>	S	ampling Date: 2016-08-22
Applicant/Owner: Enbridge		State: Minnesot	ia S	ampling Point: <u>w-50n26w18-k1</u>
Investigator(s): ZCW, MGH	Se	ection, Township, Range: <u>S18, T5</u>	50N, R26W	
Landform (hillslope, terrace, etc.): Dep	pression	Local Relief (con	cave, convex, none): <u>CC</u>	Slope (%): <u>0-2%</u>
Subregion (LRR or MLRA):		Latitude: 46.8194377189	Longitude: -93.67743	470 Datum: NAD83
Soil Map Unit Name: 928C			N	WI Classification: N/ A
Are climatic/hydrologic conditions on	the site typical for th	his time of year? (if no, explain in	n Remarks):	No
Are Vegetation <u>No</u> , Soil <u>No</u> , or I	Hydrology <u>No</u> sign	nificantly disturbed? Are "Norma	al Circumstances" present?	? Yes
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hy	drology No natur:	ally problematic? (If needed, ex	plain any answers in Rema	arks)
, , , , , , , , , , , , , , , , , , ,				,
SUMMARY OF FINDINGS - Attach s	ite map showing sa	mpling point locations, transect	s, important features, etc	
Hydrophytic Vegetation Present?	Yes	Is the Sampled A	Area	
Hydric Soil Present?	Yes	within a Wetlan	ıd?	Yes
Wetland Hydrology Present?	Yes	If yes, optional V	Wetland Site ID:	<u>w-50n26w18-k</u>
Remarks: (Explain alternative procedu	ures here or in a sep	oarate report.)		
HYDROLOGY Wetland Hydrology Indicators:			Secondary	Indicators (minimum of two required
Wetland Hydrology Indicators:	s required: check all	that apply)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is			Sur	face Soil Cracks (B6)
Wetland Hydrology Indicators:	Wa	<u>that apply)</u> ater-Stained Leaves (B9) quatic Fauna (B13)	Sur Drai	
Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is</u> Surface Water (A1)	Wa Aq	ater-Stained Leaves (B9)	Sur Drai Mos	face Soil Cracks (B6) inage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is	Wa Aq Ma	ater-Stained Leaves (B9) quatic Fauna (B13)	Sur Drai Mos Dry-	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is	Wa Aq Ma Hy	ater-Stained Leaves (B9) quatic Fauna (B13) arl Deposits (B15)	Sur Drai Mos Dry- Cray	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is	Wa Aq Ma Hy Ox	ater-Stained Leaves (B9) quatic Fauna (B13) arl Deposits (B15) ydrogen Sulfide Odor (C1)	Sur Drai Mos Dry- Cray 3)Satu	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) fish Burrows (C8)
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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. Fraxinus nigra	35.00	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:
	35	= Total Cover		OBL species $0.00 \times 1 = 0$
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 75.00 x 2 150
	5.00	Yes	FACW	FACU species 0.00 x 3 0
		105		
2			· ·	
3				
4				Prevalence Index = $B/A = 2.25$
5				Hydrophytic Vegetation Indicators:
6			·	1 - Rapid Test for Hydrophytic Vegetation
7				yes 2 - Dominance Test is > 50%
	5	= Total Cover		<u>yes</u> 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide
1. Matteuccia struthiopteris	35.00	Yes	FACW	supporting data in Remarks or on a separate sheet)
2. Athyrium angustum	25.00	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (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				
	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 Present? Yes
4.				
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet.)			

Northcentral and Northeast Region – Version 2.0

SOIL

-	tion: (Describe to the	depth nee				nfirm th	e absence of indi	cators.)
Depth	Matrix		Redox	Redox Features		2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3 1	100					LS	
5-13	10YR 4 2	95	10YR 4 6	_ 5	<u>C</u>	M	LS	
13-24	10YR 5 1	90	10YR 4 6	_ 10	<u>C</u>	M	LS	
				_				
¹ Type: C=Concen	tration, D=Depletion, RM	Reduced Ma	atrix, MS=Masked Sand G	rains.				² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indica	itors:						Indicators for P	roblematic Hydric Soil ³ :
Histosol (A	1)		Polyvalue Below 149B)	Surface (58) (LRR R	, MLRA	2 cm Mucl	< (A10) (LRR K, L, MLRA 149B)
Histic Epipe	edon (A2)		Thin Dark Surface	e (S9) (LR	R R, MLRA	149B)	Coast Prair	rie Redox (A16)(LRR K, L, R)
Black Histic	c (A3)		Loamy Mucky M	ineral (F1) (LRR K, L)	5 cm Mucl	ky Peat or Peat (S3) (LRR K, L, R)
Hydrogen S			Loamy Gleyed M				🗌 Dark Surfa	ce (S7) (LRR K, M)
Stratified L			Depleted Matrix				_	Below Surface (S8) (LRR K, L)
_	elow Dark Surface (A11)		Redox Dark Surfa				Thin Dark S	Surface (S9) (LRR K, L)
	Surface (A12)		Depleted Dark Su)		_	nese Masses (F12) (LRR K, L, R)
Sandy Muc	ky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont F	Floodplain Soils (F19) (MLRA 149B)
	red Matrix (S4)						_	dic (TA6) (MLRA 144A, 145, 149B)
Sandy Red	ox (S5)						Red Paren	t Material (F21)
Stripped M	latrix (S6)						Very Shall	ow Dark Surface (TF12)
Dark Surfac	ce (S7) (LRR R, MLRA 149	3)					🗌 Other (exp	olain in remarks)
Restrictive Layer	(if observed):							
Туре:							Hydric Soil Present?	Ves
Depth (i	nches):					ŀ	ayaric Soll Present?	
Remarks:								

Site Photograph 1



Latitude: 46.8194810534332

Longitude: -93.6774364673474

Direction: Southwest

Cowardin Classification: PFO

Circular 39: <u>1</u> Eggers & Reed: <u>Seasonally Flooded Basin</u>

Remarks:

Site Photograph 2



Latitude: 46.8194816820759

Longitude: -93.6774373893567

Direction: Northeast

Cowardin Classification: PFO

Circular 39: 1

Eggers & Reed: Seasonally Flooded Basin

Remarks: