WETL		MINATION DATA F	ORM - North Cent	tral and Northe	-			
Project/Site: SPP	Cit	City/County: Aitkin			Sampling Date: 2016-08-22			
Applicant/Owner: Enbridge			State: Minnesota		Sampling	Point: w-50n2	6w18-p1	
Investigator(s): ZCW, MGH		Section, Townshi	p, Range: <u>S18, T50N</u>	, R26W				
Landform (hillslope, terrace, etc.): Depre	ession		Local Relief (concav	e, convex, none)	: CC	Slope (%	%): <u>0-2%</u>	
Subregion (LRR or MLRA):		Latitude: 46	5.8189524068	Longitude: -93.	68379145	Datum: NAD	083	
Soil Map Unit Name: 928C					NWI Class	ification: N/A		
Are climatic/hydrologic conditions on th	ne site typica	l for this time of year	? (if no, explain in Re	emarks):		No		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hy	ydrology <u>No</u>	_ significantly disturb	oed? Are "Normal Ci	rcumstances" pr	esent? Yes			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd	rology <u>No</u>	naturally problemation	c? (If needed, explai	in any answers ir	n Remarks)			
SUMMARY OF FINDINGS - Attach sit	e map show	ing sampling point lo	cations, transects, ir	mportant feature	es, etc.			
Hydrophytic Vegetation Present?	<u>\</u>	/es	Is the Sampled Area	а				
Hydric Soil Present?	Y	/es	within a Wetland?			Yes		
Wetland Hydrology Present?	<u>\</u>	/es	If yes, optional Wet	land Site ID:	-	w-50n26w18-p		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is n 	required; che yes		:s (B9)	<u>Seco</u>	ndary Indicato	Cracks (B6)	f two required)	
yes High Water Table (A2)	es High Water Table (A2) Aquatic Fauna (B13)			Moss Trim Lines (B16)				
yes Saturation (A3)	Saturation (A3) Marl Deposits (B15				Dry-Season Water Table (C2)			
Water Marks (B1)	Water Marks (B1) Hyd		Hydrogen Sulfide Odor (C1)			ows (C8)		
Sediment Deposits (B2)	Sediment Deposits (B2) Oxidized Rhizosp		es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	_ Drift Deposits (B3) Presence of Reduce					tressed Plants (D1)		
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Iron Reduction					rphic Position (D2)		
Iron Deposits (B5)	Iron Deposits (B5) Thin Muck Surface (							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)					Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8	3)			yes	FAC-Neutral T	est (D5)		
Field Observations:	No							
Surface Water Present?	<u>No</u>	Depth (inches)						
Water Table Present?	Yes	Depth (inches)					Voc	
Saturation Present?	Yes	Depth (inches)	0	Wetland F	lydrology Pre	sent?	Yes	
(includes capillary fringe)							1	
Describe Recorded Data (stream gauge,	, monitoring	well, aerial photos, p	revious inspections),	if available:				
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: 2(A)	
2. Acer rubrum	10.00	No	FAC	Total Number of Dominant	
3.				Species Across All Strata: 2(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:	
	55	= Total Cover		OBL species 5.00 x 1 5	
Sapling/Shrub Stratum (Plot Size: 15 )				FACW species 80.00 x 2 160	
1. Fraxinus nigra	10.00	Yes	FACW	FACU species 0.00 x 3 0	
2				UPL species 0.00 x 4 0	
3				Column Totals 95 (A) 195 (B)	
4				Prevalence Index = $B/A = 2.0526315$	
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.				yes 2 - Dominance Test is > 50%	
7	10	- Total Cauar			
	10	= Total Cover			
Herb Stratum (Plot Size: 5)	25.00	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
1. Calamagrostis canadensis			·		
2. Carex lacustris	5.00	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless	
4				disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6					
7				<b>Tree</b> - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
8					
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.	
12					
	30	= Total Cover			
Woody Vine Stratum (Plot Size: 30)					
1.					
2.				Hydrophytic	
				Vegetation	
3				Present?	
4	0				
		=Total Cover			
<b>Remarks:</b> (include photo numbers here or on a separate sheet.	)				

Northcentral and Northeast Region – Version 2.0

## SOIL

Profile Descrip Depth	tion: (Describe to the Matrix	depth ne		e <mark>indica</mark> t Feature		nfirm th	e absence of indic	cators.)
(inches)	Color (moist)	%	Color (moist)	% reature	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 2 1	100		,-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		M	
3-19	10YR 4 2	95	10YR 4 6	5	с	М	SL	
19-24	10YR 6 1	100					SL	
					_			
				_				
						·		
<sup>1</sup> Type: C=Concen	tration, D=Depletion, RM	Reduced M	atrix, MS=Masked Sand G	 rains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix
Hydric Soil Indica	itors:						Indicators for Pro	oblematic Hydric Soil <sup>3</sup> :
Histosol (A	1)		Polyvalue Below <b>149B)</b>	Surface (	58) <b>(LRR R</b>	, MLRA	2 cm Muck	(A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epipe			Thin Dark Surfac	o (SQ) <b>(I P</b>		140B)	_	ie Redox (A16)( <b>LRR K, L, R</b> )
Black Histic			Loamy Mucky M				<b>_</b>	y Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen S			Loamy Gleyed M		) (LKK K, L	)		ce (S7) ( <b>LRR K, M</b> )
Stratified L			Depleted Matrix				_	Below Surface (S8) (LRR K, L)
								urface (S9) (LRR K, L)
	elow Dark Surface (A11)		Redox Dark Surfa				_	
	Surface (A12)		Depleted Dark S	-	)		_	nese Masses (F12) (LRR K, L, R)
Sandy Muc	ky Mineral (S1)		Redox Depressio	ns (F8)				loodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Gley	ed Matrix (S4)						Mesic Spodi	ic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy Redo	ox (S5)						Red Parent	Material (F21)
Stripped M	latrix (S6)						Very Shallo	w Dark Surface (TF12)
Dark Surfac	ce (S7) <b>(LRR R, MLRA 1498</b>	3)					Other (expl	ain in remarks)
Restrictive Layer	(if observed):	Γ						
Туре:							Hydric Soil Present?	Yes
Depth (i	nches):							
Remarks:								

Site Photograph 1



Latitude: 46.8189539155428

Longitude: -93.6838478689023

Cowardin Classification: PFO

Direction: East

Circular 39: 7 Eggers & Reed: <u>Hardwood Swamp/Coniferous Swamp</u>

Remarks:

Site Photograph 2

Sampling Point: w-50n26w18-p1



Latitude: 46.8189537479047

Longitude: -93.6838481203594

Cowardin Classification: PFO

Remarks:

Direction: South

Eggers & Reed: Hardwood Swamp/Coniferous Swamp

Circular 39: 7