## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	County: Aitkin	Samplin	g Date: 07-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n22w19-b3
Investigator(s): SMR		Se	ction, Township, Range:	<b>s.</b> 20 <b>t.</b> 51N	<b>R.</b> 22W
Landform (hillslope, terrace, e	tc.): Lowland		relief (concave, convex, r		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	.RR K	<b>Lat.:</b> 46 53.	737 <b>Lon</b> g	-93 9.8467	Datum: NAD 83
Soil Map Unit Name: 544				NWI classification:	PFO1B
Are climatic/hydrologic condit	ions on the site ty	pical for this time of year?	Yes ● No ○	(If no, explain in Remarks	s.)
Are Vegetation, Soil	, or Hydrol		ırbed? Are "Normal	Circumstances" present?	Yes   No
Are Vegetation , Soil	, or Hydrol	ogy  naturally problem		explain any answers in Rer	narks.)
Summary of Findings	_ , ,	· – · · ·	,	•	•
Hydrophytic Vegetation Preso	ent? Yes •	No O			
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes   No	
Wetland Hydrology Present?	Yes	No O	Willim a Fredama.	V	
Hydrology Wetland Hydrology Indicator				_Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimum	n of one required;			Surface Soil Cracks (B6)	
✓ Surface Water (A1) ✓ High Water Table (A2)		Water-Stained Leaves (B9) Aquatic Fauna (B13)	)	<ul><li>☐ Drainage Patterns (B10)</li><li>☐ Moss Trim Lines (B16)</li></ul>	
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C	1)	Crayfish Burrows (C8)	(02)
Sediment Deposits (B2)		Oxidized Rhizospheres alo		Saturation Visible on Aer	ial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron		Stunted or Stressed Plan	
Algal Mat or Crust (B4)		Recent Iron Reduction in	Filled Soils (C6)	✓ Geomorphic Position (D2	2)
Iron Deposits (B5)		☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial		Other (Explain in Remarks	)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave	Surface (B8)			✓ FAC-neutral Test (D5)	
Field Observations:	res ● No ○				
		Depth (inches):	3		
	res ● No ○	Depth (inches):	0 Wetland Hyd	rology Present? Yes	No O
(includes capillally fringe)	'es ● No ○		0		
Describe Recorded Data (stre	eam gauge, monito	oring well, aerial photos, prev	vious inspections), if avai	lable:	
Remarks:					
rtemarks.					

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

VEGETATION - OSE SCIENTIFIC Harries of pic	Sampling Point: w-51n22w19-b3					
(0) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species		
1	0			That are OBL, FACW, or FAC: (A)		
2	0			Total Number of Dominant		
3	0			Species Across All Strata:		
4	0					
5	0			Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)		
6				That Are OBL, FACW, or FAC:100.0% (A/B)		
7				Prevalence Index worksheet:		
		= Total Cove	r	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15				0BL speci es80 x 1 =80		
1				FACW species 20 x 2 = 40		
2	0			FAC speciles		
3	0			<u> </u>		
4	0					
5	0			UPL species $0 \times 5 = 0$		
6.	0			Column Totals: 100 (A) 120 (B)		
7	0			Prevalence Index = B/A = 1.200		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:  Rapid Test for Hydrophytic Vegetation		
1. Scirpus cyperinus	30	<b>✓</b>	OBL			
2 Calamagrostis canadensis		<b>✓</b>	OBL	✓ Dominance Test is > 50%		
3. Spiraea alba			FACW	Prevalence Index is ≤3.0 ¹		
A Operator constitute			FACW	Morphological Adaptations <sup>1</sup> (Provide supporting		
E. Chamandanhun ankasulata	10		OBL	data in Remarks or on a separate sheet)		
•			ODL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9				Definitions of Vegetation Strata.		
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1	0			at breast height (DBH), regardless of height.		
12				Sanling/shrub Woody plants loss than 3 in DRH and		
(5)	100 =			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: 30		_		, ,		
1				Herb - All herbaceous (non-woody) plants, regardless of		
2	0			size, and woody plants less than 3.28 ft tall.		
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
	0 =	Total Cove	r			
				Hydrophytic		
				Vegetation   Yes • No O		
				Present:		
				I		
Remarks: (Include photo numbers here or on a separate sl	neet.)					

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n22w19-b3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth		Matrix			dox Featu			_		
(inches)	Color	(moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks	
0-24	10YR	2/1	100					Muck		
	-							-		
-		-	-		_					
	-		-							
-			-							
<sup>1</sup> Type: C=Cond	centration. [	=Depletio	n. RM=Rec	uced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins <sup>2</sup> Loca	ation: PL=Pore Lining. M=N	Matrix	
Hydric Soil I		•		·						
Histosol (				Polyvalue Belo	w Surface	(S8) (LRR R			ematic Hydric Soils: 3	
	pedon (A2)			MLRA 149B)		(00) (2	,		(LRR K, L, MLRA 149B)	
Black Hist				☐ Thin Dark Surf	ace (S9) (	LRR R, MLR	A 149B)		ox (A16) (LRR K, L, R)	
	Sulfide (A4)	)		Loamy Mucky	Mineral (F1	) LRR K, L)		_	or Peat (S3) (LRR K, L, R)	
	Layers (A5)			Loamy Gleyed	Matrix (F2)	)		Dark Surface (S7)		
	Below Dark	Surface (A	11)	Depleted Matr	ix (F3)				Surface (S8) (LRR K, L)	
	k Surface (A		,	Redox Dark Su	ırface (F6)			☐ Thin Dark Surface		
	ıck Mineral (			Depleted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
	eyed Matrix (			Redox Depres	sions (F8)				ain Soils (F19) (MLRA 149B)	
Sandy Red		,						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	Matrix (S6)							Red Parent Material (F21)		
	ace (S7) (LR	R R, MLRA	149B)					<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>		
						I P. I.			Remarks)	
			n and wetta	and hydrology must be	present, un	iless disturb	ea or proble	ematic.		
Restrictive La	ayer (if obs	served):								
Type:								Hydric Soil Present?	Yes ● No ○	
Depth (inch	hes):							nyuric Son Present?	Yes  No	
Remarks:										
Ī										