## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling	<b>Date:</b> 31-Aug-17
Applicant/Owner: Enbridge		State:	IN Sampling Point:	u-51n24w26-aa5
Investigator(s): PJK		Section, Township, Range	: <b>S.</b> 26 <b>T.</b> 51N	<b>R.</b> 24W
Landform (hillslope, terrace, etc.):	Nound	Local relief (concave, convex,		Slope: 1.7 % / 1.0 °
Subregion (LRR or MLRA): LRR K	Lat	— <b>L:</b> 46 52.3571 <b>Lo</b>	-93 19.9790	Datum: NAD 83
Soil Map Unit Name: 685			NWI classification:	
Are climatic/hydrologic conditions on	the site typical for this time (	of year? Yes O No 💿	(If no, explain in Remarks.	)
. ,	<i>,</i> ,	•	al Circumstances" present?	Yes   No
		_	, explain any answers in Rem	arke )
Summary of Findings - Atta		•	•	•
Hydrophytic Vegetation Present?	Yes O No •		-	
Hydric Soil Present?	Yes O No •	Is the Sampled Area within a Wetland?	Yes ○ No ●	
_ ·	Yes ○ No •	Within a Wetana.		
Remarks: (Explain alternative proce	dures here or in a separate r	enort.)		
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minimu	m of 2 required)
Primary Indicators (minimum of one	required; check all that appl	(y)	Surface Soil Cracks (B6)	iii or z regulied)
Surface Water (A1)	Water-Stained	Leaves (B9)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna	(B13)	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits		Dry Season Water Table (	C2)
Water Marks (B1)	Hydrogen Sulfi		Crayfish Burrows (C8)	
Sediment Deposits (B2)		spheres along Living Roots (C3)	Saturation Visible on Aeria	0 3 . ,
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		educed Iron (C4) eduction in Tilled Soils (C6)	Stunted or Stressed Plant Geomorphic Position (D2)	` ,
Iron Deposits (B5)	Thin Muck Surf	• •	Shallow Aguitard (D3)	
Inundation Visible on Aerial Imagery		• ,	Microtopographic Relief (I	04)
Sparsely Vegetated Concave Surface		iii Kenidiks)	FAC-neutral Test (D5)	,
Field Observations:				
Surface Water Present? Yes	No   Depth (inche	s):0		
Water Table Present? Yes	No Depth (inche	s): 0		
Saturation Present? (includes capillary fringe) Yes	No Depth (inche	Wetland Hy	drology Present? Yes	No 💿
Describe Recorded Data (stream gau	ge, monitoring well, aerial ph	notos, previous inspections), if av	ailable:	
Remarks:				

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

VEGETATION - USE Scientific fiamles of pia	Sampling Point: u-51n24w26-aa5			
(01-4-1 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 Daminant
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5		$\overline{\Box}$	-	Percent of dominant Species
6		$\overline{\square}$		That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		Total Cause		
Sapling/Shrub Stratum (Plot size: 15 )		= Total Cove	Г	Total % Cover of: Multiply by:
1	0			0BL species x 1 =0
2				FACW species 10 x 2 = 20
				FAC species x 3 =0
3				FACU species110 x 4 =440
4				UPL species $\frac{10}{10}$ x 5 = $\frac{50}{10}$
5				Col umn Total s: 130 (A) 510 (B)
6				Column locals: 150 (A) 510 (5)
7	0			Prevalence Index = B/A = 3.923
(Diot size: 5	0 =	Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 )				Rapid Test for Hydrophytic Vegetation
1. Pteridium aquilinum	70	✓	FACU	Dominance Test is > 50%
2. Poa pratensis	40	<b>✓</b>	FACU	
3. Solidago gigantea	10		FACW	Prevalence Index is ≤3.0 ¹
4. Asciepias syriaca			UPL	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5				1 —
				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.
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Carlia da harita Manada ada da antida da Oria BRII and
	_	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				greater than 3.20 it (1111) tail
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0		-	size, and woody plants less than 3.28 ft tall.
3				Manda di Cina All Connection de la 200 ft in
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		Tatal Cause		Thoight.
		= Total Cove	r	
				Hydrophytic
				Vegetation   Yes ○ No ●
Demonstra (Technical ademonstration				1
Remarks: (Include photo numbers here or on a separate sh	ieet.)			

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

Soil Sampling Point: u-51n24w26-aa5

Depth		Matrix			dox Features		_	
(inches)	Color (	moist)	%	Color (moist)	<u>%</u> Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR	2/2	100				Sandy Loam	
6-18	10YR	3/4	100				Sandy Loam	
							-	
							-	
	-		-					
		-						
Type: C=Cor	ncentration. D	=Depletio	n. RM=Red	uced Matrix, CS=Cover	ed or Coated Sand Gra	ins <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil		.,						
Histosol				Polyvalue Relo	w Surface (S8) (LRR R			ematic Hydric Soils: 3
	ipedon (A2)			MLRA 149B)	W Surface (SO) (ERR R)			(LRR K, L, MLRA 149B)
Black His				Thin Dark Surf	face (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)
	n 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)	
	I Below Dark S	Surface (A	11)	Depleted Matri	ix (F3)			urface (S8) (LRR K, L)
_	rk Surface (A1		,	Redox Dark Su	urface (F6)		Thin Dark Surface	
	uck Mineral (S			Depleted Dark	Surface (F7)			lasses (F12) (LRR K, L, R)
	leyed Matrix (S			Redox Depress	sions (F8)			in Soils (F19) (MLRA 149B)
	edox (S5)						_	) (MLRA 144A, 145, 149B)
	Matrix (S6)						Red Parent Materia	
	face (S7) (LRF	R R, MLRA	149B)				<ul><li>✓ Very Shallow Dark</li><li>✓ Other (Explain in F</li></ul>	
							• •	Remarks)
			n and wetta	na nyarology must be	present, unless disturb	ea or proble	ematic.	
Restrictive I	Layer (if obs	erved):						
Type: <u>r</u>							Hydric Soil Present?	Yes ○ No •
Depth (in	ches): 18						nyaric Soil Present?	Yes Uno U
Remarks:								