WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Cit	ty/County:	Aitkin		Samplin	g Date: 26-Aug-17
Applicant/Owner: Enbridge				State: MN	San	npling Point:	u-51n24w27-d2
Investigator(s): PJK			Section, To	wnship, Range:	s. 27	T. 51N	R. 24W
Landform (hillslope, terrace, etc.):	Mound	Lo	•	ncave, convex, n		vex	Slope: 3.5 % / 2.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46	52.3998	Long	-93 22.2	 2905	Datum: NAD 83
Soil Map Unit Name: 124					NWI	classification:	N/A
Are climatic/hydrologic conditions or	the site tyr	pical for this time of year	r? Yes	○ No ●	(If no, exp	- lain in Remarks	s.)
Are Vegetation, Soil	, or Hydrolo				. , .	nces" present?	Yes No
Are Vegetation, Soil	, or Hydrolo	· –				answers in Ren	
Summary of Findings - Att					-		•
Hydrophytic Vegetation Present?	Yes O	No •					<u> </u>
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes 〇	No 💿	
Wetland Hydrology Present?	Yes \bigcirc	No •	Within	a wellanu:		110 -	
Remarks: (Explain alternative proc			١				
Hydrology							
Wetland Hydrology Indicators:					Secondary I	Indicators (minim	um of 2 required)
Primary Indicators (minimum of on	e required;	check all that apply)			_	Soil Cracks (B6)	uni oi z requirea)
Surface Water (A1)		Water-Stained Leaves	s (B9)			ge Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)			Moss T	rim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				ason Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odo				h Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres		Roots (C3)		ion Visible on Aer	0 3 . ,
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduced Recent Iron Reduction		(0/)		d or Stressed Plar rphic Position (D2	` '
Iron Deposits (B5)		Thin Muck Surface (C		(06)		rpnic Position (D2) v Aquitard (D3)	<u>-</u>)
Inundation Visible on Aerial Imagery	/ (B7)	Other (Explain in Rem	•			pographic Relief	(D4)
Sparsely Vegetated Concave Surface	(B8)	Other (Explain in Ken	idi K3)			utral Test (D5)	
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0				
Water Table Present? Yes	No 💿	Depth (inches):	0				
Saturation Present? (includes capillary fringe) Yes	No •	Depth (inches):	0	Wetland Hydr	ology Prese	ent? Yes) No ●
Describe Recorded Data (stream ga	uge, monito	ring well, aerial photos,	previous insp	pections), if avail	able:		
Remarks:							

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific flames of pla	ants			Sampling Point: u-51n24w27-d2
(0)	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 Deminant
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5		П		Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 0.0% (A/B)
7		П		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Cove		0BL species x 1 =
1	0			
2		$\overline{\Box}$		FACW species 0 x 2 = 0
3		$\overline{\Box}$		FAC speciles x 3 =0
4		П		FACU speci es
5		\Box		UPL species $\frac{30}{100}$ x 5 = $\frac{150}{100}$
6.				Column Total s: 100 (A) 430 (B)
-				
7				Prevalence Index = B/A = 4.300
Herb Stratum (Plot size: 5		= Total Cove		Hydrophytic Vegetation Indicators:
	20		LIDI	Rapid Test for Hydrophytic Vegetation
1. Ascleplas syrlaca		✓	UPL	☐ Dominance Test is > 50%
2. Solidago canadensis			FACU	Prevalence Index is ≤3.0 ¹
3. Poa pratensis			FACU	Morphological Adaptations ¹ (Provide supporting
4. Phleum pratense	15		FACU	data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				
2.	-	 = Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		- Total Cove		greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0	$\overline{\Box}$		size, and woody plants less than 3.28 ft tall.
3		П		W
4	0	П		Woody vine - All woody vines greater than 3.28 ft in height.
4.		Total Cause		Ticigric.
	=	= Total Cove		
				Hydronbydia
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sl	neet.)			
	•			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n24w27-d2

Profile Descri	iption: (Des	scribe to	the depth	needed to	documen	t the indi	cator or co	onfirm the a	absence of indicators.)			
Depth			Redox Features									
(inches)	Color (%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks		
0-4	10YR	3/1	100						Silt Loam			
4-13	10YR	4/2	95	10YR	4/4	5	C		Silt Loam			
13-20	10YR	4/4	100						Clay Loam			
		-		-								
¹ Type: C=Cond	entration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	tion: PL=Pore Lining. M=M	atrix		
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydric Soils: 3		
Histosol (A	A1)					w Surface	(S8) (LRR	₹,		(LRR K, L, MLRA 149B)		
Histic Epip	edon (A2)				A 149B)							
Black Histi	ic (A3)				☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ Loamy Mucky Mineral (F1) LRR K, L)				Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4)					Mineral (F) Matrix (F2)	Dark Surface (S7) (LRR K, L, M)			
	Layers (A5)				ny Gleyed leted Matri		2)		Polyvalue Below Surface (S8) (LRR K, L)			
	Below Dark S		.11)			ırface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)			
	Surface (A1			_		Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)			
	y Muck Mineral (S1) y Gleyed Matrix (S4) Depleted Dark Surface (+7) Redox Depressions (F8)					☐ Piedmont Floodplain Soils (F19) (MLRA 149B)						
Sandy Red		34)							☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
									Red Parent Material (F21)			
	☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR R, MLRA 149B)					✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)						
³ Indicators of				nd budralage	, marret be r	procent	alooo diotur	had ar prable		remarks)		
			ni anu wena	na nyarology	illust be j	present, ui	iless distui	bed of proble	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes ● No ○		
Depth (inch	ies):								-			
Remarks:												