WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	ounty: Aitkin	Sampling	Date: 31-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n24w25-c1
Investigator(s): SMR	Sec	tion, Township, Range:	s. 25 t. 51N	R. 24W
Landform (hillslope, terrace, etc.): Hillside		elief (concave, convex, n		Slope: 12.2 % / 7.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.3	S631 Long	-93 19.6488	Datum: NAD 83
Soil Map Unit Name: 870C			NWI classification:	 N/A
Are climatic/hydrologic conditions on the si	to tunical for this time of year?	Yes ○ No ●	(If no, explain in Remarks.	
	drology \square significantly distu		Circumstances" present?	Yes No
	drology naturally problems		•	
Summary of Findings - Attach		,	explain any answers in Rem s. transects. import	•
Hydrophytic Vegetation Present? Yes		g point location	s, cranscous, import	
Hydric Soil Present? Yes		Is the Sampled Area	Yes ○ No ●	
Yes (within a Wetland?	res UNO U	
Wetland Hydrology Present? Remarks: (Explain alternative procedures				
Hadralama				
Hydrology				
Wetland Hydrology Indicators:	المسمع فمطف الممام مام		Secondary Indicators (minimu	ım of 2 required)
Primary Indicators (minimum of one requi			☐ Surface Soil Cracks (B6) ☐ Drainage Patterns (B10)	
High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table	(C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1))	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres alon		Saturation Visible on Aeric	al Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron	(C4)	Stunted or Stressed Plant	s (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in T	illed Soils (C6)	Geomorphic Position (D2))
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		Microtopographic Relief (I	D4)
Sparsely vegetated concave surface (68)			FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes No				
)		
Water Table Present? Yes No) Wetland Hydr	ology Present? Yes	No 💿
Saturation Present? (includes capillary fringe) Yes No	Depth (inches):(ology i resent.	
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previ	ious inspections), if avail	able:	
Remarks:				

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: u-51n24w25-c1			
/Dist. 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:1 (A)
2	0			TALIN A COLOR
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4				
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 33.3% (A/B)
				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:
1	0			0BL speci es x 1 =
2				FACW species <u>40</u> x 2 = <u>80</u>
				FAC species x 3 =0
3				FACU species x 4 =
4				UPL species $\frac{20}{100}$ x 5 = $\frac{100}{100}$
5				Col umn Total s: 100 (A) 340 (B)
6				Column locals: 100 (A) 340 (5)
7	0			Prevalence Index = B/A = 3.400
Herb Stratum (Plot size: 5	0 =	Total Cove	r	Hydrophytic Vegetation Indicators:
nero Stratum (1 lot 3126)	-			Rapid Test for Hydrophytic Vegetation
1. Solidago gigantea	40	✓	FACW	Dominance Test is > 50%
2. Asciepias syriaca	20	✓	UPL	Prevalence Index is \$3.0 1
3. Poa pratensis	40	✓	FACU	
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Problematic hydrophytic vegetation (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Bernitions of Vegetation Strata.
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(F) 20	100 =	Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30		_		gramma and a company term
1	0			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
				Vogetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate s	heet.)			
• • • • • • • • • • • • • • • • • • • •	•			

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

Soil Sampling Point: u-51n24w25-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	oth Matrix Redox Features			_						
(inches)	Color	(moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks	
0-4	10YR	2/2	100					Sandy Loam		
4-20	10YR	3/4	100					Sandy Loam		
	_							-		
								-		
		-	-							
	-									
	-	-	-		-					
1 Type: C=Cond	centration. [D=Depletio	n. RM=Red	duced Matrix. CS=Covere	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I		•		adou mann, oo ooro.						
Histosol (A				Polyvalue Belov	v Surface /	'S8) (I DD 🛭	1		ematic Hydric Soils: 3	
	pedon (A2)			MLRA 149B)	v Surface ((30) (LIKIK IK	•1		(LRR K, L, MLRA 149B)	
Black Histi				Thin Dark Surfa	ice (S9) (L	RR R, MLR	A 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4))		Loamy Mucky N	/lineral (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 Matrix	(F3)				urface (S8) (LRR K, L)	
	k Surface (A		,	Redox Dark Su	face (F6)			Thin Dark Surface		
	ck Mineral (Depleted Dark	Surface (F	7)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	eyed Matrix			Redox Depress	ions (F8)				in Soils (F19) (MLRA 149B)	
Sandy Red		(34)) (MLRA 144A, 145, 149B)	
Stripped N								Red Parent Materi		
	ace (S7) (LR	RR MIRA	149R)					☐ Very Shallow Dark		
								Other (Explain in F	Remarks)	
³ Indicators of	hydrophytic	c vegetatio	n and wetl	and hydrology must be p	resent, un	less disturb	ed or proble	ematic.		
Restrictive La	ayer (if obs	served):								
Type:										
Depth (inch	hes):							Hydric Soil Present?	Yes O No 💿	
Remarks:										
1										
1										
1										