WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Cit	y/County:	St. Louis		Samplin	Date: 14-Sep-17
Applicant/Owner: Enbridge				State: MN	ı	Sampling Point:	w-50n19w21-c2
Investigator(s): SMR			Section, To	wnship, Range:	s. 21	T. 50N	R. 19W
Landform (hillslope, terrace, etc.):	Lowland	Loc	•	ncave, convex, n		concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46	48.3677	Long	j.: -92	45.2447	Datum: NAD 83
Soil Map Unit Name: F170A						IWI classification:	PSSB
Are climatic/hydrologic conditions o	on the site ty	pical for this time of year?	? Yes	ı ● No ○	(If no	explain in Remarks	s.)
Are Vegetation, Soil	, or Hydrol		-			nstances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrolo					any answers in Rer	marke)
Summary of Findings - At				•	-	-	•
Hydrophytic Vegetation Present?	Yes •	No O			-	-	
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes	● No ○	
Wetland Hydrology Present?	Yes 💿	No O	WILLIAM	d Wellanu:	•		
Hydrology							
Wetland Hydrology Indicators:		List all that apply)				dary Indicators (minim	
Primary Indicators (minimum of o Surface Water (A1)	<u>ne requireu,</u>		(DO)			ırface Soil Cracks (B6) rainage Patterns (B10)	
✓ High Water Table (A2)		Water-Stained Leaves Aquatic Fauna (B13)	(BA)		_	oss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)			_	ry Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odor	r (C1)			ayfish Burrows (C8)	(02)
Sediment Deposits (B2)		Oxidized Rhizospheres		Roots (C3)		aturation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)		Presence of Reduced I			St	unted or Stressed Plar	nts (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction	ı in Tilled Soils	(C6)	✓ G	eomorphic Position (D	2)
☐ Iron Deposits (B5)		Thin Muck Surface (C7	')			nallow Aquitard (D3)	
Inundation Visible on Aerial Image	•	Other (Explain in Rema	arks)		_	icrotopographic Relief	(D4)
Sparsely Vegetated Concave Surface	:e (88)				V F#	AC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes	No O	D # (* 1)	-				
		Depth (inches):					
Water Table Present? Yes		Depth (inches):	0	Wetland Hydr	rology I	Present? Yes	No O
Saturation Present? (includes capillary fringe) Yes		Depth (inches):	0	-		rresent: 100	
Describe Recorded Data (stream g	auge, monito	oring well, aerial photos, p	orevious insp	pections), if avail	lable:		
Domorko							
Remarks:							

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pla	Sampling Point: w-50n19w21-c2		
(Dist. size. 20	Absolute		cator Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species? State	Number of Dominant Species
1		<u> </u>	That are OBL, FACW, or FAC: (A)
2		Ц	Total Number of Dominant
3	0	Ш	Species Across All Strata: 2 (B)
4			
5	0		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6	0		That Are OBE, FACW, OF FAC.
7	0		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover	Total % Cover of: Multiply by:
1	0		0BL speci es 100 x 1 = 100
2			FACW species x 2 = 0
3			FAC speciles x 3 =
			FACU species x 4 =0
4			UPL speci es x 5 =0
5			Column Totals: 100 (A) 100 (B)
6		<u> </u>	—
7		Total Caver	Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5		= Total Cover	Hydrophytic Vegetation Indicators:
1. Scirpus cyperinus	70	✓ OBL	Rapid Test for Hydrophytic Vegetation
0.7.44		OBL	── ✓ Dominance Test is > 50%
		✓ OBL	
			Morphological Adaptations ¹ (Provide supporting
4			data in Remarks or on a separate sheet)
5		<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
6			Indicators of hydric soil and wetland hydrology must
7		H —	be present, unless disturbed or problematic.
8			Definitions of Vegetation Strata:
9		Ц	— Definitions of Vegetation Strata.
10			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0		at breast height (DBH), regardless of height.
12	0		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	Total Cover	greater than 3.28 ft (1m) tall
	0		Herb - All herbaceous (non-woody) plants, regardless of
1	0		size, and woody plants less than 3.28 ft tall.
	- 0		—
3	0		 Woody vine - All woody vines greater than 3.28 ft in height.
4		Total Cover	noight.
	=	= Total Cover	
			Hydrophytic
			Vegetation V
			Present? Yes No
Remarks: (Include photo numbers here or on a separate sh	eet.)		

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

Soil Sampling Point: w-50n19w21-c2

Profile Descri	iption: (Describe to	the depth r	eeded to document	the indicator or co	nfirm the a	absence of indicators.)	
Depth Matrix			lox Features				
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u> <u>Type</u> ¹	Loc ²	Texture	Remarks
0-24	10YR 2/1	100				Muck	
	-						
¹ Type: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	d or Coated Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil I							ematic Hydric Soils: 3
Histosol (A			Polyvalue Below	V Surface (S8) (LRR R	1		
Histic Epip			MLRA 149B)	. , ,		_	LRR K, L, MLRA 149B)
Black Histi			Thin Dark Surfa	ce (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)
	Sulfide (A4)			lineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed N	Matrix (F2)		Dark Surface (S7)	
Depleted E	Below Dark Surface (A	11)	Depleted Matrix			Thin Dark Surface	urface (S8) (LRR K, L)
☐ Thick Dark	k Surface (A12)		Redox Dark Sur				asses (F12) (LRR K, L, R)
Sandy Mud	ck Mineral (S1)		Depleted Dark S				in Soils (F19) (MLRA 149B)
Sandy Gle	yed Matrix (S4)		Redox Depressi	ons (F8)) (MLRA 144A, 145, 149B)
Sandy Red	dox (S5)					Red Parent Materia	
Stripped M	Matrix (S6)					Very Shallow Dark	
☐ Dark Surfa	ace (S7) (LRR R, MLRA	149B)				Other (Explain in R	
3 Indicators of	hydrophytic vegetatio	n and watlan	d hydrology must be p	racant unlace dicturk	and or proble		omarksy
		ii and wetian	a flydrology ffiast be p	resent, unless disturb	led of proble	inatic.	
	ayer (if observed):						
Type:						Hydric Soil Present?	Yes ● No ○
Depth (inch	nes):					Tryunc son Fresenc.	Tes C NO C
Remarks:							