## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Carl	ton	Samplin	g Date: 16-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-48n17w16-d1
Investigator(s): SMR		Section, Towns	hip, Range: S. 16	<b>T.</b> 48N	<b>R.</b> 17W
Landform (hillslope, terrace, etc.):	 .owland	Local relief (concar	ve, convex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.:	46 38.8090	<b>Long.:</b> -9	2 30.1497	Datum: NAD 83
Soil Map Unit Name: 337				NWI classification:	PSS1B
Are climatic/hydrologic conditions on	the site typical for this time of	vear? Yes •		, explain in Remarks	
		,	(=: ::-	n, explain in Remarks mstances" present?	.) Yes ● No ○
		•		•	
				n any answers in Ren	•
Summary of Findings - Atta	•	sampling point	t locations, tr	ansects, impor	tant reatures, etc
Hydrophytic Vegetation Present?	Yes No O	Is the Sam	nnled Area		
Hydric Soil Present?	Yes No O	within a W		. ● No ○	
Wetland Hydrology Present?	Yes   No				
Remarks: (Explain alternative proce		ort.)			
No digging on mainline, active burie	d utilities.				
Hydrology					
Wetland Hydrology Indicators:			Secor	ndary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one	required; check all that apply)		s	urface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Le	aves (B9)		Prainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B			Moss Trim Lines (B16)	
Saturation (A3)	☐ Marl Deposits (B1			Ory Season Water Table	(C.2)
Water Marks (B1)	Hydrogen Sulfide			rayfish Burrows (C8)	()
Sediment Deposits (B2)		heres along Living Root		saturation Visible on Aer	ial Imagery (C9)
Drift deposits (B3)	Presence of Redu			tunted or Stressed Plan	0 3
Algal Mat or Crust (B4)		icea fron (C4) iction in Tilled Soils (C6		Geomorphic Position (D2	• •
Iron Deposits (B5)		·	<i>'</i>	hallow Aquitard (D3)	.)
Inundation Visible on Aerial Imagery	☐ Thin Muck Surface	• •		Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface	U Other (Explain in	Remarks)		AC-neutral Test (D5)	(D4)
sparsely vegetated concave surface	(DO)		<b>▼</b> F	AC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes	No Depth (inches):	0			
Water Table Present? Yes	No Depth (inches):				
Saturation Present? Yes	No Depth (inches):	v	Vetland Hydrology	Present? Yes	No O
Describe Recorded Data (stream gau		ns previous inspect	ions) if available:		
Describe Recorded Data (stream gad	ge, monitoring well, aeriai priot	.os, previous irispect	ioris), ii available.		
Remarks:					
Remarks.					

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

vegeration - ose scientific fiames of pla	Sampling Point: w-48n17w16-d1			
(8) -1 - 20	Absolute		ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species? S	tatus	Number of Dominant Species
1		<u> </u>		That are OBL, FACW, or FAC:4(A)
2		Ц -		Total Number of Dominant
3	0	Ш_		Species Across All Strata:4(B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
6	0			That Are OBE, TACW, OF FAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15	0 =	Total Cover		Total % Cover of: Multiply by:
	0			0BL speci es 100 x 1 = 100
1				FACW species x 2 = 0
2				FAC speciles0 x 3 =0
3				FACU species $0 \times 4 = 0$
4		-		UPL speci es x 5 =0
5				Column Totals: 100 (A) 100 (B)
6				
7				Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5		= Total Cover		Hydrophytic Vegetation Indicators:
	30	<b>✓</b>	OBL	✓ Rapid Test for Hydrophytic Vegetation
			OBL	✓ Dominance Test is > 50%
			OBL	✓ Prevalence Index is ≤3.0 ¹
		_	OBL	$igsquare$ Morphological Adaptations $^1$ (Provide supporting
••			OBL	data in Remarks or on a separate sheet)
5				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				Deminions of regulation strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				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.
3	0			l.,,
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		= Total Cover		Tiolgrit.
		- Iotal Covei		
				Hydrophytic
				Vegetation
				Present? Yes No V
Remarks: (Include photo numbers here or on a separate she	eet.)			

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

Soil Sampling Point: w-48n17w16-d1

Depth	Matrix	ie deptii ii				illillilli tile a	absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	dox Featu %	Type 1	Loc <sup>2</sup>	Texture	Remarks
	<u>color (moise)</u>		color (moise)		Турс		TOXCUITO	Remarks
		-	-	-				
1 Type: C. Cor	econtration D. Donlation	DM Doduc	ad Matrix CS Cayore	od or Coata	d Sand Cra	inc 21 occ	tion: PL=Pore Lining. M=M	latriv
		. KIVI=Reduc	ed Matrix, CS=COVER	eu or Coate	u sanu Gra	IIIIS ~LUCa		
Hydric Soil							Indicators for Proble	ematic Hydric Soils: 3
Histosol (			Polyvalue Belov MLRA 149B)	w Surface (	S8) (LRR R	ı	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		•	(0.0) (1				x (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark Surfa			A 149B)		or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Mucky I				Dark Surface (S7)	
Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2)				
Depleted	Below Dark Surface (A1	1)	Depleted Matri	x (F3)				urface (S8) (LRR K, L)
	rk Surface (A12)	,	Redox Dark Su	rface (F6)			Thin Dark Surface	
	uck Mineral (S1)		Depleted Dark	Surface (F7	7)			Masses (F12) (LRR K, L, R)
			Redox Depress	ions (F8)				in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)			` ,			Mesic Spodic (TA6	) (MLRA 144A, 145, 149B)
☐ Sandy Re							Red Parent Materia	al (F21)
	Matrix (S6)						Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LRR R, MLRA 1	149B)					✓ Other (Explain in F	Remarks)
<sup>3</sup> Indicators o	f hydrophytic vegetation	and wetland	hvdrology must be r	resent, un	ess disturb	ed or proble	ematic.	
			<u>,                                    </u>	·		<u>'</u>		
	.ayer (if observed):							
Type:							Hydric Soil Present?	Yes   No
Depth (inc	ches):						nyunc son Presents	Yes S No C
Remarks:								
No diagina o	n mainline, active bur	iad utilitias	soils assumed hy	dric hase	d on vege	tation and	hydrology	
ivo digging o	ir mainine, active bui	ica atiiitics	. sons assumed my	unc base	a on vege	tation and	nyarology.	