## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Carlton	Samplin	<b>16-Sep-17</b>
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-48n17w16-e1
Investigator(s): SMR		Section, To	wnship, Range: S.	16 <b>T.</b> 48N	<b>R.</b> 17W
Landform (hillslope, terrace, etc.): Lo	owland		ncave, convex, non		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		<b>Lat.:</b> 46 38.7322	Long.:	-92 30.1045	Datum: NAD 83
Soil Map Unit Name: 337				NWI classification:	PSS1B
Are climatic/hydrologic conditions on t	the site tynical for this t	ime of year? Yes	. ● No ○ (I	f no, explain in Remarks	
		nificantly disturbed?	ν	rcumstances" present?	Yes  No
	, _	turally problematic?		•	
Summary of Findings - Atta				olain any answers in Rei transects, impo	•
	Yes  No			uumbeed, mipe	
/· · · / · · · · · · · · · · · · · · ·	Yes  No		Sampled Area	Yes   No	
	Yes  No	within	a Wetland?	res 🙂 No 🔾	
Wetland Hydrology Present?  Remarks: (Explain alternative proced					
Hydrology					
Wetland Hydrology Indicators:	noncinos de obsessio all Abrah	a mark A	_ <u>S</u>	econdary Indicators (minim	
Primary Indicators (minimum of one  Surface Water (A1)				<ul><li>J Surface Soil Cracks (B6)</li><li>Drainage Patterns (B10)</li></ul>	
High Water Table (A2)		ained Leaves (B9) auna (B13)		Moss Trim Lines (B16)	
Saturation (A3)		osits (B15)		Dry Season Water Table	e (C2)
Water Marks (B1)		Sulfide Odor (C1)		Crayfish Burrows (C8)	, (02)
Sediment Deposits (B2)		Rhizospheres along Living	Roots (C3)	Saturation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)	Presence	of Reduced Iron (C4)		Stunted or Stressed Plan	nts (D1)
Algal Mat or Crust (B4)	Recent Ir	on Reduction in Tilled Soils	(C6)	Geomorphic Position (D	2)
Iron Deposits (B5)		k Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (	U Other (Lx	plain in Remarks)	L	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (	88)		<u> </u>	FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes	No O Depth (				
		inches): 0			
Water Table Present? Yes	•	inches): 0	Wetland Hydrolo	ogy Present? Yes	• No O
Saturation Present? (includes capillary fringe) Yes	No Depth (	inches): 0	wedana nyarok	ngy Fresent: 103	
Describe Recorded Data (stream gauç	ge, monitoring well, aeri	al photos, previous ins	pections), if availab	le:	
Remarks:					

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

(5)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:4 (A)
2	0			
3				Total Number of Dominant
				Species Across All Strata:4 (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				, ,
7	0			Prevalence Index worksheet:
_Sapling/Shrub Stratum (Plot size: _15)	0 =	Total Cove	•	Total % Cover of: Multiply by:
				0BL speci es60 x 1 =60
1. Alnus incana	60	✓	FACW	FACW species 100 x 2 = 200
2. Salix petiolaris		✓	FACW	FAC speciles x 3 =
3	0			I .
4	0			FACU species $0 \times 4 = 0$
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: <u>160</u> (A) <u>260</u> (B)
7	0			Prevalence Index = B/A = 1.625
<i>r</i>		- Total Cava		Prevalence muex = B/A = 1.625
Herb Stratum (Plot size: 5 )	80 =	= Total Cove		Hydrophytic Vegetation Indicators:
	40		ODI	Rapid Test for Hydrophytic Vegetation
1 Calamagrostis canadensis	60	<b>V</b>	OBL	✓ Dominance Test is > 50%
2. Phalaris arundinacea		<b>V</b>	FACW	✓ Prevalence Index is ≤3.0 <sup>1</sup>
3	0			Morphological Adaptations <sup>1</sup> (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	0_			
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation 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	80 =	Total Cove	•	greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			Size, and woody plants less than 5.20 it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cove		
				Hydrophytic
				Vegetation Present?  Yes No
				Present? Yes No V
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-48n17w16-e1

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

Soil Sampling Point: w-48n17w16-e1

Depth	Matrix			dox Features		_	
(inches)	Color (moist)	% Co	lor (moist)	<u> Type</u> 1	Loc2	Texture	Remarks
						-	
						-	
						-	
				-			
1 Tuno: C. Con	contration D Donlation	DM Doduced Ma	triv CS Covere	od or Coated Sand Cra	inc 2Loca	ation: PL=Pore Lining. M=Ma	atriv
		RIVI=Reduced IVIA	IIIX, CS=COVERE	ed of Coated Sand Gra	iris ²Loca		
Hydric Soil 1				0 ( (00) (100 0		Indicators for Proble	ematic Hydric Soils: 3
Histosol (	•		Polyvalue Belov MLRA 149B)	v Surface (S8) (LRR R	,	2 cm Muck (A10) (	LRR K, L, MLRA 149B)
	pedon (A2)		,	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	x (A16) (LRR K, L, R)
Black Hist				Mineral (F1) LRR K, L)	, , , , ,	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
_	Sulfide (A4)		Loamy Gleyed I			Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)		Depleted Matrix				ırface (S8) (LRR K, L)
	Below Dark Surface (A11)		Redox Dark Sui			Thin Dark Surface	(S9) (LRR K, L)
	k Surface (A12)	_	Depleted Dark			☐ Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	in Soils (F19) (MLRA 149B)
_	eyed Matrix (S4)		.touox Bop.oo	(1 0)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	ıl (F21)
	Matrix (S6)					Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LRR R, MLRA 14	19B)				✓ Other (Explain in R	emarks)
<sup>3</sup> Indicators o	f hydrophytic vegetation a	nd wetland hydro	ology must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Depth (inc	hes):					Hydric Soil Present?	Yes   No
Remarks:							
No digging p	otential buried utilities.	soils assumed	hydric based	on vegetation and	hydrology	<b>/</b> .	