## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County	: St. Louis	Sampling Date: 13-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-50n19w7-d1	L
Investigator(s): SMR	Section,	Township, Range: S. 7	<b>T.</b> 50N <b>R.</b> 19W	
Landform (hillslope, terrace, etc.): Mound	Local relief	(concave, convex, none)	: convex Slope: 7.0 % /	4.0
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.7090		92 47.5680 <b>Datum:</b> NAD 8	
Soil Map Unit Name: B127B	40 47.7070		NWI classification: N/A	
		Yes ● No ○ (If r		
Are climatic/hydrologic conditions on the site	Cypromition aims on yours	(	no, explain in Remarks.)	
Are Vegetation	ology	? Are "Normal Circ	umstances" present? Yes Vo Vo	
Are Vegetation $\ \square$ , Soil $\ \square$ , or Hyd	ology naturally problematic?	(If needed, expla	in any answers in Remarks.)	
Summary of Findings - Attach si		point locations, t	ransects, important features, e	etc
Hydrophytic Vegetation Present? Yes				
Hydric Soil Present? Yes	NO 🥯 wit	the Sampled Area :hin a Wetland?	es O No •	
Wetland Hydrology Present? Yes	No ●			
Remarks: (Explain alternative procedures h	ere or in a separate report.)			
Hydrology				
Wetland Hydrology Indicators:		Seco	ondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one require			Surface Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)		Drainage Patterns (B10)	
Saturation (A3)	Aquatic Fauna (B13)  Marl Deposits (B15)		Moss Trim Lines (B16) Dry Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres along Livi	ina Roots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift deposits (B3)	Presence of Reduced Iron (C4)	g (,	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled S	Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)	
Field Observations:	<u> </u>			
Surface Water Present? Yes No		_		
Water Table Present? Yes No	Depth (inches): 0		y Present? Yes O No •	
Saturation Present? (includes capillary fringe) Yes No	Depth (inches):0	Wetland Hydrolog	y Present? Yes 🔾 No 😉	
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous	inspections), if available		
Remarks:				

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

vegeration - ose scientific fiames of pla		Sampling Point: u-50n19w7-d1		
(8) -1 - 20	Absolute		indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1		Ц.		That are OBL, FACW, or FAC: (A)
2		Ц.		Total Number of Dominant
3	0	Ш		Species Across All Strata: 4 (B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6	0			That Are OBE, FACW, 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 x 1 =
1				FACW species
2				FAC speciles0 x 3 =0
3				FACU species $90 \times 4 = 360$
4				UPL speci es x 5 =0
5				Column Totals: 100 (A) 380 (B)
6	-			
7				Prevalence Index = B/A = 3.800
Herb Stratum (Plot size: 5		= Total Cover		Hydrophytic Vegetation Indicators:
	30	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation
0.044			FACU	☐ Dominance Test is > 50%
		<b>✓</b>	FACU	☐ Prevalence Index is $\leq$ 3.0 <sup>1</sup>
3. Tanacetum vulgare			FACW	$oxedsymbol{oxed}$ Morphological Adaptations $^1$ (Provide supporting
4. Phalaris arundinacea		<b>✓</b>		data in Remarks or on a separate sheet)
5. Phleum pratense			FACU	☐ 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				Definitions of Vegetation Strata.
10		Ш.		Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
l1				at breast height (DBH), regardless of height.
12		Ш.		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.
2				
3	0	Π.		Woody vine - All woody vines greater than 3.28 ft in height.
4		- Total Cover		neight.
		= Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes V 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: u-50n19w7-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth				_					
(inches)	Color (	moist)	%	Color (moist)		Loc2	<u>Texture</u> Remarks	<u>s</u>	
0-5	10YR	3/3	100				Silty Clay Loam		
5-13	10YR	4/3	100				Sandy Clay Loam		
13-20	10YR	4/4	100				Sandy Loam		
							-		
							-		
1 Type: C=Con	contration D	-Depletio	n DM-Dad	uced Matrix CS-Cover	ad or Coated Sand Gra	nine 21 oca	ation: PL=Pore Lining. M=Matrix		
Hydric Soil 1		-pehierio	ii. Rivi=Reu	uceu mairix, cs=cover	or coated saild Gla	s ~LUC	<del>`</del>	3	
Hyaric Soil I				Polyvaluo Polos	w Surface (S8) (LRR R		Indicators for Problematic Hydric So		
	pedon (A2)			MLRA 149B)	W Surface (So) (LKK K	,	2 cm Muck (A10) (LRR K, L, MLRA 14		
Black Hist				☐ Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox (A16) (LRR K, L,	•	
	Sulfide (A4)			Loamy Mucky I	Mineral (F1) LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K	(, L, R)	
	Layers (A5)			Loamy Gleyed	Matrix (F2)		Dark Surface (S7) (LRR K, L, M)		
☐ Depleted	Below Dark S	Surface (A	11)	Depleted Matri	x (F3)		Polyvalue Below Surface (S8) (LRR K,	, L)	
☐ Thick Dar	k Surface (A1	12)		Redox Dark Su	, ,		☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mu	uck Mineral (S	51)		Depleted Dark			Piedmont Floodplain Soils (F19) (MLR		
Sandy Gle	eyed Matrix (S	S4)		Redox Depress	ions (F8)		Mesic Spodic (TA6) (MLRA 144A, 145		
Sandy Re	dox (S5)						Red Parent Material (F21)	,, , 2)	
Stripped I	Matrix (S6)						Very Shallow Dark Surface (TF12)		
☐ Dark Surf	face (S7) (LRF	R R, MLRA	149B)				Other (Explain in Remarks)		
<sup>3</sup> Indicators o	f hydrophytic	vegetatio	n and wetla	ind hydrology must be p	resent, unless disturb	ed or proble	lematic.		
Restrictive L									
Type:	.,. (	,							
Depth (inc	:hes):						Hydric Soil Present? Yes O No	, •	
Remarks:									
Kerriarks.									