## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Count	y: St. Louis	Samplin	g Date: 12-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n20w35-a3
Investigator(s): PJK	Section	, Township, Range: S. 3		<b>R.</b> 20W
Landform (hillslope, terrace, etc.): Lowland		(concave, convex, none)		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 51.6374	Long.:	92 50.8577	Datum: NAD 83
Soil Map Unit Name: B124A			NWI classification:	N/A
Are climatic/hydrologic conditions on the site	e typical for this time of year?	Yes   No   (If I	no, explain in Remarks	.)
Are Vegetation, Soil, or Hyd		-	umstances" present?	Yes ● No ○
Are Vegetation , Soil , or Hyd			ain any answers in Ren	narks.)
Summary of Findings - Attach s			-	•
Hydrophytic Vegetation Present? Yes	No O			
Hydric Soil Present? Yes		the Sampled Area thin a Wetland?	es   No	
Wetland Hydrology Present?	No O	unin a weuanu:		
Remarks: (Explain alternative procedures l	ere or in a separate report.)			
Hydrology				
Wetland Hydrology Indicators:		Sec	ondary Indicators (minim	um 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)	(62)
Sediment Deposits (B2)	Oxidized Rhizospheres along Liv	rina Roots (C3)	Saturation Visible on Aer	ial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	g	Stunted or Stressed Plan	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled	Soils (C6)	Geomorphic Position (D2	2)
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)		V	FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes No				
Curraco Trator Frozenti				
Water Table Present? Yes No		Wetland Hydrolog	y Present? Yes	No O
Saturation Present? (includes capillary fringe) Yes No	Depth (inches): 0		y Present: 100	
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous	inspections), if available	:	
Remarks:				

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

4-1 20	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:3(A)
2				
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Species Across Air Strata
5				Percent of dominant Species
				That Are OBL, FACW, or FAC:100.0% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15	:	= Total Cover	•	Total % Cover of: Multiply by:
1 Salix petiolaris	5	<b>✓</b>	FACW	0BL speci es <u>40</u> x 1 = <u>40</u>
2				FACW species
				FAC speci es
3				FACU species $0 \times 4 = 0$
4				UPL speci es x 5 =0
5				Column Totals:115 (A)190 (B)
6	0			
7	0			Prevalence Index = B/A = 1.652
Herb Stratum (Plot size: 5)	5	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (1 lot 3126)				✓ Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea	60	✓	FACW	✓ Dominance Test is > 50%
2. Scirpus cyperinus	30	✓	OBL	✓ Prevalence Index is ≤3.0 <sup>1</sup>
3. Calamagrostis canadensis	10		OBL	
4. Solidago gigantea	5		FACW	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. Symphyotrichum novae-angliae	5		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8		П		be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
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	110 :	= 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				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0	= Total Cover	•	
				Hydrophytic Vegetation
				Present? Yes   No
Remarks: (Include photo numbers here or on a separate she	at \			
Remarks. (Include photo humbers here of on a separate she	et.)			

Sampling Point: w-51n20w35-a3

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

Soil Sampling Point: w-51n20w35-a3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix Redox Features			_							
(inches)		(moist)	%	Color (	moist)	%_	Type 1	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR	2/2	100						Sandy Loam		
4-12	10YR	4/2	80	10YR	4/6	20	С	M	Sandy Loam		
-		-			-	-			-		
-					-		-				
				-		-	-	-			
					-						
		-			-	-					
<sup>1</sup> Type: C=Cond	centration. [	D=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand G	rains <sup>2</sup> Loca	ation: PL=Pore Lining. M=N	Лatrix	
Hydric Soil I	ndicators:								Indicators for Probl	lematic Hydric Soils: 3	
Histosol (A	A1)					w Surface (	(S8) (LRR	R,		(LRR K, L, MLRA 149B)	
Histic Epip	pedon (A2)				A 149B)					ox (A16) (LRR K, L, R)	
☐ Black Histi	ic (A3)					ace (S9) (I				or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4)	)				Mineral (F1		)	Dark Surface (S7)		
Stratified I	Layers (A5)					Matrix (F2)	)				
Depleted I	Below Dark	Surface (A	11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)		
☐ Thick Dark	k Surface (A	112)			x Dark Su				☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mu	ck Mineral (	(S1)				Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gle	yed Matrix	(S4)		☐ Redo	x Depress	sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Red	dox (S5)								Red Parent Mater		
Stripped M	Matrix (S6)								Very Shallow Dark		
☐ Dark Surfa	ace (S7) (LR	RR R, MLRA	149B)						Other (Explain in		
<sup>3</sup> Indicators of	hydrophytic	c vegetatio	n and wetla	nd hydrology	must be p	oresent, un	ıless distur	bed or probl	ematic.		
Restrictive La					•			•			
Type: _ro		oci ved ji									
Depth (inch									Hydric Soil Present?	Yes ● No ○	
•	103). 12										
Remarks:											