WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: St. Louis	Sampling Date:	08-Sep-17
Applicant/Owner: Enbridge		State: M	N Sampling Point: w-	51n21w20-a1
Investigator(s): SMR		Section, Township, Range:	s. 20 t. 51N	R. 21W
Landform (hillslope, terrace, etc.):	owland	Local relief (concave, convex,	none): concave Slope	e: <u>0.0</u> %/ <u>0.0</u> °
Subregion (LRR or MLRA): LRR K	Lat.:	46 53.3705 Lor	g.: -93 2.2902 C	Datum: NAD 83
Soil Map Unit Name: B135A			NWI classification: PFO1B	
Are climatic/hydrologic conditions on	the site typical for this time of y	ear? Yes No	(If no, explain in Remarks.)	
			I Circumstances" present? Yes	● No ○
Are Vegetation, Soil,	or Hydrology naturally p		explain any answers in Remarks.)	
Summary of Findings - Atta	, , , .	• ,		
Hydrophytic Vegetation Present?	Yes ● No ○			
Hydric Soil Present?	Yes ● No ○	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present?	Yes ● No ○			
Remarks: (Explain alternative proce	dures here or in a separate repo	rt.)		
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2	roquirod)
Primary Indicators (minimum of one	required; check all that apply)		Surface Soil Cracks (B6)	required)
✓ Surface Water (A1)	Water-Stained Lea	ves (B9)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B1:	3)	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15		Dry Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide (Crayfish Burrows (C8)	
Sediment Deposits (B2)		eres along Living Roots (C3)	Saturation Visible on Aerial Imag	jery (C9)
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)	Presence of Reduc	ced Iron (C4) ction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)✓ Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface	• •	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery		` '	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface		remarks)	FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes •	No Depth (inches):	3		
Water Table Present? Yes	No Depth (inches):	0		
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	Wetland Hyd	rology Present? Yes • No	, (
Describe Recorded Data (stream gau	ge, monitoring well, aerial photo	os, previous inspections), if ava	ilable:	
Remarks:				

VEGETATION - Use scientific names of plants

	Absolute	Dominant	Indicator	Dominance Test worksheet:
_Tree Stratum (Plot size: _30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:5(A)
2	0			
3				Total Number of Dominant Species Across All Strata: 5 (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 Cove	•	Total % Cover of: Multiply by:
A Almos because	30		FACW	0BL speci es 90 x 1 = 90
		✓	FACW	FACW species <u>80</u> x 2 = <u>160</u>
		V		FAC speci es
3. Larix Iaricina	-	✓	FACW	FACU species x 4 =
4				UPL species $0 \times 5 = 0$
5				l .
6	0			Column Totals: <u>170</u> (A) <u>250</u> (B)
7	0			Prevalence Index = B/A =1.471
	70 =	= Total Cove		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				✓ Rapid Test for Hydrophytic Vegetation
1 _ Calamagrostis canadensis	_40_	✓	OBL	
2. Carex lacustris	50	✓	OBL	✓ Dominance Test is > 50%
3. Onoclea sensibilis	10		FACW	✓ Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
		П		data in Remarks or on a separate sheet)
5		$\overline{\Box}$		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12	0			Continue / Woods plants loss than 2 in DDI and
		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				greater than 6.20 it (iii) tail
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
T1.	0 =	= Total Cove		ŭ
		- rotal core.		
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et.)			
	•			

Sampling Point: w-51n21w20-a1

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

Soil Sampling Point: w-51n21w20-a1

Depth	Matrix			dox Features			
(inches)	Color (moist)	<u> </u>	olor (moist)		Loc2	Texture	Remarks
						-	
						-	
						-	
		-		-			
			-				
			-				
1 Typo: C-Con	econtration D_Donlation	DM_Poducod M	atrix CS_Covere	od or Coated Sand Gra	ins 21 oca	tion: PL=Pore Lining. M=Ma	atriv
Hydric Soil		KIVI-REGUCEG IVI	attix, C3=Covere	ed of Coated Salid Gra	IIIS -LUCA		
] Dalamaka Balaw			Indicators for Proble	matic Hydric Soils: 3
Histosol (MLRA 149B)	v Surface (S8) (LRR R	,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	k (A16) (LRR K, L, R)
Black Hist			_	Mineral (F1) LRR K, L)	,	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
_	n Sulfide (A4) Layers (A5)		Loamy Gleyed I			Dark Surface (S7)	(LRR K, L, M)
	Below Dark Surface (A11)	. =	Depleted Matrix				ırface (S8) (LRR K, L)
_	k Surface (A12)	' <u> </u>	Redox Dark Sui			Thin Dark Surface	(S9) (LRR K, L)
			Depleted Dark			Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
_	eyed Matrix (S4)					Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	l (F21)
	Matrix (S6)	100)				Very Shallow Dark	Surface (TF12)
	face (S7) (LRR R, MLRA 14					✓ Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation a	ind wetland hyd	rology 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:			_				
	-4		d bduia baaad				
no algging po	otential buried utilities.	soils assumed	a nyaric based	on vegetation.			