WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 12-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: w-51n20w27-g3
Investigator(s): PJK	Section, Township, Range: S. 2	7. 51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none)	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.492 Long.: -	.92 51.3540 Datum: NAD 83
Soil Map Unit Name: B107A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for the	his time of year? Yes No (If I	no, explain in Remarks.)
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	,	cumstances" present? Yes No
Are Vegetation , Soil , or Hydrology		ain any answers in Remarks.)
Summary of Findings - Attach site map s	, , ,	•
Hydrophytic Vegetation Present? Yes • No		
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	es No
Wetland Hydrology Present? Yes No	Within a Wedana:	
Dodge Land		
Hydrology Watland Mydrology Indicators		
Wetland Hydrology Indicators:		condary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all Surface Water (A1)	er-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
	atic Fauna (B13)	Moss Trim Lines (B16)
	Deposits (B15)	Dry Season Water Table (C2)
	rogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	ized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	ence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	ent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
	Muck Surface (C7)	Shallow Aquitard (D3)
	er (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	▼.	FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No De		
	pth (inches): 0	
	pth (inches):0	y Present? Yes No
Saturation Present? (includes capillary fringe) Yes No De	pth (inches):0	y Present: 163 C 160 C
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if available	::
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	ants			Sampling Point: w-51n20w27-g3			
(0) (1 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species			
1	0			That are OBL, FACW, or FAC:4 (A)			
2	0			T			
3				Total Number of Dominant Species Across All Strata: 4 (B)			
4				openies rioress riii etrata.			
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	r	Total % Cover of:			
1 Alnus incana	80	✓	FACW				
2. Spiraea alba	20	<u></u>	FACW	FACW species <u>115</u> x 2 = <u>230</u>			
3				FAC speci es x 3 =0			
				FACU species x 4 =0			
4				UPL species $0 \times 5 = 0$			
5				Column Totals: <u>185</u> (A) <u>300</u> (B)			
6							
7	0			Prevalence Index = B/A = <u>1.622</u>			
Herb Stratum (Plot size: 5	100=	= Total Cove	r	Hydrophytic Vegetation Indicators:			
Herb Stratum (Fiot 3126. 3	-			✓ Rapid Test for Hydrophytic Vegetation			
1. Symphyotrichum novae-angliae	15		FACW	✓ Dominance Test is > 50%			
2. Calamagrostis canadensis	30	✓	OBL				
3. Scirpus cyperinus	40	✓	OBL	Y Prevalence Index is ≤3.0 ¹			
4				Morphological Adaptations ¹ (Provide supporting			
				data in Remarks or on a separate sheet)			
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)			
6				17.45.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4			
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
8	0						
9	0			Definitions of Vegetation Strata:			
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
1				at breast height (DBH), regardless of height.			
2							
Z	-	 - Tatal Caus		Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30	85 =	= Total Cove	r	greater than 3.28 ft (1m) tall			
	0			Herb - All herbaceous (non-woody) plants, regardless of			
1				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 Cove	r				
				Hydrophytic			
				Vegetation			
				Present? Yes Vo No			
Remarks: (Include photo numbers here or on a separate sl	neet.)						

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

Soil Sampling Point: w-51n20w27-g3

	iption: (Des		the depth	needed to do				onfirm the	absence of indicators.)		
Depth (inches)	Color (Matrix moist)	%	Color (n		dox Featu %	ures Type ¹	Loc ²	Texture	Remarks	
0-5	10YR	3/3	100		,		.,,,,		Loam	NGG.	
5-9	10YR	3/2	95	10YR	4/4	- 5			Silt Loam		
-				10YR							
9-20	10YR	4/2	80		4/6		C	. IVI	Silt Loam		
			-				-	-	-		
1 Type: C=Con	centration D	 Danlatic	n PM-Per	Jucod Matrix C	S-Cover	ed or Coat	ed Sand Gr	rains 21 ocs	ation: PL=Pore Lining. M=N	Matrix	
Hydric Soil I		-Depletic	JII. KWI–Kec	iuceu matrix, c	J-00vei	ed or coat	eu Sanu Gi	allis Loca			
Histosol (Polyva	ilue Belc	w Surface	(S8) (LRR	R.		lematic Hydric Soils: 3	
	pedon (A2)			MLRA		ou la co	(00) (2			(LRR K, L, MLRA 149B)	
Black Hist						face (S9) (Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen	Sulfide (A4)					Mineral (F1)	Dark Surface (S7)		
	Layers (A5)				-	Matrix (F2)			Surface (S8) (LRR K, L)	
	Below Dark S		.11)		ted Matr	urface (F6)			Thin Dark Surface (S9) (LRR K, L)		
	k Surface (A1					Surface (F	7)		Iron-Manganese I	Masses (F12) (LRR K, L, R)	
	ıck Mineral (S					sions (F8)	.,		Piedmont Floodpl	ain Soils (F19) (MLRA 149B)	1
Sandy Gle	eyed Matrix (\$	54)			·	` ,				6) (MLRA 144A, 145, 149B)	
	Matrix (S6)								Red Parent Mater		
	ace (S7) (LRF	R R, MLRA	A 149B)						✓ Very Shallow Darl✓ Other (Explain in		
				and hydrology r	must ha	nrasant ur	alace dietur	had or probl		Remarks)	
			ni and wette	and mydrology i	ilust be	present, ui	iless distai	bed of probl	ematic.		
Restrictive La	ayer (it obs	ervea):									
Type: Depth (incl	hes).								Hydric Soil Present?	Yes ● No ○	
Remarks:	1163)										
Remarks:											