WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Dat	te: 15-Sep-17
Applicant/Owner: Enbridge	State:	MN Sampling Point: v	v-50n19w17-f3
Investigator(s): SMR	Section, Township, Ran	ge: S. 17 T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, conve		pe: <u>0.0</u> % / <u>0.0</u> °
Subregion (LRR or MLRA): LRR K		Long.: -92 46.8927	Datum: NAD 83
Soil Map Unit Name: F137B		NWI classification: PFOE	3
Are climatic/hydrologic conditions on the site typical for this time	of year? Yes No	(If no, explain in Remarks.)	
	•		es No
		ed, explain any answers in Remarks	E.)
Summary of Findings - Attach site map showin	•	,	
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No	Is the Sampled Are within a Wetland?	ea Yes ● No ○	
Wetland Hydrology Present? Yes No	Within a Within.		
Remarks: (Explain alternative procedures here or in a separate r	eport.)		
Hydrology			
Wetland Hydrology Indicators:		Secondary Indicators (minimum of	2 required)
Primary Indicators (minimum of one required; check all that app	ıly)	Surface Soil Cracks (B6)	
✓ Surface Water (A1)	, ,	Drainage Patterns (B10)	
✓ High Water Table (A2) Aquatic Fauna ✓ Saturation (A2) And Danasits		Moss Trim Lines (B16)	
✓ Saturation (A3)		Dry Season Water Table (C2)	
	fide Odor (C1) ospheres along Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Im	eagary (CO)
	reduced Iron (C4)	Stunted or Stressed Plants (D1	
	Reduction in Tilled Soils (C6)	Geomorphic Position (D2)	'')
☐ Iron Deposits (B5) ☐ Thin Muck Sur	• •	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (Explain	ı in Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)	
Field Observations:			
·	es):3		
Water Table Present? Yes No Depth (inche	es):0	- Vaa 📵 1	
Saturation Present? Yes No Depth (inches capillary fringe)		Hydrology Present? Yes 🌘 I	No ⁽⁾
Describe Recorded Data (stream gauge, monitoring well, aerial pl	hotos, previous inspections), if a	available:	
Remarks:			

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: w-50n19w17-f3					
(0) -1 - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species		
1 Fraxinus nigra	40	✓	FACW	That are OBL, FACW, or FAC:5 (A)		
2. Acer rubrum		✓	FAC	Total Number of Daminant		
3	0			Total Number of Dominant Species Across All Strata: 5 (B)		
4						
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
1						
Sapling/Shrub Stratum (Plot size: 15)	60 =	= Total Cove	r	Total % Cover of: Multiply by:		
1 . Alnus incana	60	✓	FACW	OBL speci es 90 x 1 = 90		
2 Acer rubrum	10		FAC	FACW species <u>110</u> x 2 = <u>220</u>		
				FAC species30 x 3 =90		
3				FACU species x 4 =0		
4				UPL speci es $0 \times 5 = 0$		
5				Column Totals: 230 (A) 400 (B)		
6				Column local s. 230 (A) 400 (C)		
7	0			Prevalence Index = B/A = 1.739		
Herb Stratum (Plot size: 5	70=	= Total Cove	r	Hydrophytic Vegetation Indicators:		
Herb Stratum (1 lot size)				Rapid Test for Hydrophytic Vegetation		
1 Calamagrostis canadensis		✓	OBL	✓ Dominance Test is > 50%		
2. Carex lacustris		✓	OBL	✓ Prevalence Index is ≤3.0 ¹		
3. Onoclea sensibilis	10		FACW			
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation ¹ (Explain)		
6				Problematic Hydrophytic Vegetation (Explain)		
				¹ Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9				Deminions of Vegetation strata.		
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1	0			at breast height (DBH), regardless of height.		
2				Sanling/shruh - Woody plants less than 3 in DBH and		
(-)	100 =	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: 30)		_				
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.		
	0 =	= Total Cove	r			
			-			
				Hydrophytic		
				Vegetation		
				Present? Yes No		
Remarks: (Include photo numbers here or on a separate s	heet.)					
	-					

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

Soil Sampling Point: w-50n19w17-f3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix			lox Features							
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u> <u>Type</u> ¹	Loc ²	Texture	Remarks			
0-24	10YR 2/1	100				Muck				
					-					
	-									
¹ Type: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	d or Coated Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=Ma	atrix			
Hydric Soil I							ematic Hydric Soils: 3			
Histosol (A			Polyvalue Below	V Surface (S8) (LRR R	1					
Histic Epip			MLRA 149B)	. , ,		_	LRR K, L, MLRA 149B)			
Black Histi			Thin Dark Surfa	ce (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)			
	Sulfide (A4)			lineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)			
	Layers (A5)		Loamy Gleyed N	Matrix (F2)		Dark Surface (S7)				
Depleted E	Below Dark Surface (A	11)	Depleted Matrix			Thin Dark Surface	urface (S8) (LRR K, L)			
☐ Thick Dark	k Surface (A12)		Redox Dark Sur				asses (F12) (LRR K, L, R)			
Sandy Mud	ck Mineral (S1)		Depleted Dark S				in Soils (F19) (MLRA 149B)			
Sandy Gle	yed Matrix (S4)		Redox Depressi	ons (F8)) (MLRA 144A, 145, 149B)			
Sandy Red	dox (S5)									
Stripped M	Matrix (S6)					☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (TF12)				
☐ Dark Surfa	ace (S7) (LRR R, MLRA	149B)				Other (Explain in R				
3 Indicators of	hydrophytic vegetatio	n and watlan	d hydrology must be p	racant unlace dicturk	and or proble		omarksy			
		ii and wetian	a flydrology ffidst be p	resent, unless disturb	ied of proble	inatic.				
	ayer (if observed):									
Type:						Hydric Soil Present?	Yes ● No ○			
Depth (inch	nes):					Tryunc Son Fresenc.	Tes C NO C			
Remarks:										