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-5	0n20w1-d1
Investigator(s): PJK	S	Section, Township, Range:	s. 1 t. 50N	R. 20W
Landform (hillslope, terrace, etc.): Mour	nd Loca	I relief (concave, convex, n	one): convex Slope:	
Subregion (LRR or MLRA): LRR K	Lat.: 46 50	0.4631 Long	-	ntum: NAD 83
Soil Map Unit Name: B118A			NWI classification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes ● No ○	(If no, explain in Remarks.)	
	Hydrology \square significantly dis		Circumstances" present? Yes	● No ○
	-lydrology		explain any answers in Remarks.)	
Summary of Findings - Attach		,		eatures, etc
	S No ●			
	, ○ No •	Is the Sampled Area	Yes ○ No ●	
,	, ○ No •	within a Wetland?	163 0 140 0	
Remarks: (Explain alternative procedure				
Hydrology				
Wetland Hydrology Indicators:	uinad, abaak all that amul A		Secondary Indicators (minimum of 2 re	equired)
Primary Indicators (minimum of one req Surface Water (A1)		20)	Surface Soil Cracks (B6) Drainage Patterns (B10)	
High Water Table (A2)	Water-Stained Leaves (E☐ Aquatic Fauna (B13)	39)	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor ((C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres a		Saturation Visible on Aerial Image	ry (C9)
Drift deposits (B3)	Presence of Reduced Iro	on (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in	n Tilled Soils (C6)	Geomorphic Position (D2)	
☐ Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remark	ks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes N	o ● Depth (inches):			
		0		
	o O Depth (inches):	0Wetland Hyde	ology Present? Yes O No	•
Saturation Present? (includes capillary fringe) Yes N	Depth (inches):	0 Wedand Hydr	ology Fresent: 103 © 110	
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pr	revious inspections), if avail	able:	
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pro-	Sampling Point: u-50n20w1-d1			
(Dist. 20)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6	0			That Are OBE, TAGW, OF TAG.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		Total % Cover of: Multiply by: OBL species 0 x 1 = 0
1	0			FACW species 10 x 2 = 20
2	0			
3				<u> </u>
4				FACU species $90 \times 4 = 360$
5	0			UPL species $0 \times 5 = 0$
6	0			Column Total s: 100 (A) 380 (B)
7	0			Prevalence Index = B/A = 3.800
		Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation
1Tanacetum vulgare	40	✓	FACU	
2. Poa pratensis	20	✓	FACU	Dominance Test is > 50%
3. Phalaris arundinacea	10		FACW	Prevalence Index is ≤3.0 ¹
4. Taraxacum officinale	4.0		FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Plantago major			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6. Phleum pratense	4.5		FACU	
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0		Ī		Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2.				
	-	Total Cover		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 3.20 ft (1111) tall
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 Cover		
				Hydrophytic
				Vegetation Yes ○ No ●
				- resent
Remarks: (Include photo numbers here or on a separate s	neet.)			

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

Soil Sampling Point: u-50n20w1-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			dox Featu				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
							-	
							-	
			-	-				
				-				
N-								
1 Type: C=Con	centration D-Depletion	DM-Peduce	ad Matrix CS-Covere	d or Coate	d Sand Gra	ins 21 ocat	tion: PL=Pore Lining. M=M	atriv
Hydric Soil 1		i. Kivi–Keduce	su matrix, c3-covere	ed or coate	u Janu Gra	iiis Local		
Histosol (Polyvalue Belov		CO) (LDD D		Indicators for Proble	ematic Hydric Soils: 3
	·		MLRA 149B)	v Surrace (58) (LKK K	,	2 cm Muck (A10) ((LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	ace (S9) (L	.RR R, MLR	A 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black Hist	Sulfide (A4)		Loamy Mucky !				5 cm Mucky Peat o	or Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed				Dark Surface (S7)	(LRR K, L, M)
	Below Dark Surface (A1	1)	Depleted Matri					urface (S8) (LRR K, L)
	k Surface (A12)	1)	Redox Dark Su				Thin Dark Surface	
			Depleted Dark		')			lasses (F12) (LRR K, L, R)
	ck Mineral (S1) eyed Matrix (S4)		Redox Depress		,			in Soils (F19) (MLRA 149B)
			•) (MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materia	
	Matrix (S6)	140D)					Very Shallow Dark	
	ace (S7) (LRR R, MLRA						Other (Explain in R	Remarks)
³ Indicators of	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unl	ess disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (inc	hes):						Hydric Soil Present?	Yes 🔾 No 💿
Remarks:								
			0 "					
No digging of	n pipeline, active bur	ied utilities.	Soils assumed no	n-nyaric b	ased on v	egetation	and hydrology.	