WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplir	Sampling Date: 11-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n20w21-b1	
Investigator(s): PJK	Section, 1	Township, Range: S. 21	T. 51N	R. 20W	
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none):	convex	Slope: <u>1.7</u> % / <u>1.0</u>	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.9270	Long.: -92	2 52.7954	Datum: NAD 83	
Soil Map Unit Name: B126D	-		WI classification:	N/A	
	ficantly disturbed? rally problematic? ing sampling p	(If needed, explain	nstances" present? a any answers in Rea ansects, impo	-	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area in a Wetland? Yes	○ _{No}		
Remarks: (Explain alternative procedures here or in a separate	e report.)				

Hydrology

Wetland Hydrology Indicate	ors:		Secondary Indicators (minimum of 2 required)			
Primary Indicators (minimu	um of one required;	check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)		Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2)		Aquatic Fauna (B13)	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 along Living Roots (C3) 	Saturation Visible on Aerial Imagery (C9)			
Drift deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aeria	al Imagery (B7)		Microtopographic Relief (D4)			
Sparsely Vegetated Concar	0 9 1 1	Uther (Explain in Remarks)	FAC-neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes 🔿 No 🖲	Depth (inches): 0				
Water Table Present?	Yes 🔿 No 🖲	Depth (inches):0				
Saturation Present? (includes capillary fringe)	Yes 🔿 No 🖲	Wetland Depth (inches): 0	Hydrology Present? Yes \bigcirc No $ullet$			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION - Use scientific names of plants

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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% 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: (B)
4				Percent of dominant Species
5	0			That Are OBL, FACW, or FAC:0.0% (A/B)
6 7	0			Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Corylus cornuta	20	\checkmark	FACU	FACW species $5 \times 2 = 10$
2	0			FAC species $15 \times 3 = 45$
3	0			FACU species $70 \times 4 = 280$
4	0			UPL species $55 \times 5 = 275$
5	-			
6				Column Totals: <u>145</u> (A) <u>610</u> (B)
7				Prevalence Index = $B/A = 4.207$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	40	\checkmark	FACU	Rapid Test for Hydrophytic Vegetation
	50	\checkmark	UPL	Dominance Test is > 50%
	5		FACW	Prevalence Index is \leq 3.0 ¹
A Baniaum conilloro	10		FAC	Morphological Adaptations ¹ (Provide supporting
5. Carex woodll	10		FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
6. Eurybla macrophylla	5		UPL	
7. Clintonia borealis	5		FAC	¹ Indicators of hydric soil and wetland hydrology must
8	0			be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
	125 =	Total Cover		greater than 3.28 ft (1m) tall
<u>Woody Vine Stratum</u> (Plot size: <u>30</u>)	0			
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		Total Cover		neight.
				Hydrophytic
				Vegetation Present? Yes O No •
Remarks: (Include photo numbers here or on a separate she	et.)			

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

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	ription: (De	scribe to	the depth	needed to docume	ent the indi	cator or co	onfirm the	absence of indicators.)		
Depth <u>Matrix</u> (inches) Color (moist) %		0/-	Redox Features			Loc ²	Taxtura			
0-8	10YR	_ moist) 4/4	100	Color (moist)	%	Type ¹	LOC ²	Texture	Remarks	
								Loamy Sand		
8-20	10YR	4/2	80	10YR 4/6	20	C	M	Silt Loam		
								<u>. </u>		
	<u>.</u>			·						
	-			·						
							67 			
								·		
¹ Type: C=Con	centration. D)=Depletio	n. RM=Red	luced Matrix, CS=Cov	ered or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Ma	atrix	
Hydric Soil										
Histosol (Polyvalue Br	low Surface	(S8) (I RR F	2		matic Hydric Soils : ³	
	pedon (A2)			MLRA 149B)			、	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)		
Black His				Thin Dark S	urface (S9) ((LRR R, MLF	RA 149B)			
	n Sulfide (A4)	1		Loamy Muck	xy Mineral (F	1) LRR K, L))		r Peat (S3) (LRR K, L, R)	
	Layers (A5)			Loamy Gley	ed Matrix (F2	2)		Dark Surface (S7) (LRR K, L, M)		
_	Below Dark	Surface (A	11)	Depleted Ma	ıtrix (F3)			Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A		,	Redox Dark	Surface (F6)					
	uck Mineral (S			Depleted Da	rk Surface (F	7)				
	eyed Matrix (Redox Depr	essions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Re		(34)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	Matrix (S6)							Red Parent Material (F21)		
	face (S7) (LR		149B)					Very Shallow Dark Surface (TF12)		
								Other (Explain in R	emarks)	
³ Indicators o	f hydrophytic	c vegetatio	n and wetla	and hydrology must b	e present, ur	nless disturi	bed or proble	ematic.		
Restrictive L	ayer (if obs.	served):								
Туре:									\sim	
Depth (inc	:hes):							Hydric Soil Present?	Yes $ullet$ No $igcap$	
Remarks:								L		
Normariko.										