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-50n20w1-e1
Investigator(s): SMR	Section, T	ownship, Range: S. 1	T. 50N	R. 20W
Landform (hillslope, terrace, etc.): Hillside	Local relief (c	oncave, convex, none):	convex	Slope: <u>10.5</u> % / <u>6.0</u> °
Subregion (LRR or MLRA): LRR K	46 50.3327	Long.: -92	2 48.6114	Datum: NAD 83
Soil Map Unit Name: 1020A			WI classification:	N/A
	ntly disturbed? problematic? sampling p	Are "Normal Circur (If needed, explain oint locations, tra	any answers in Re	-
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland? Yes	○ _{N0} ●	
Remarks: (Explain alternative procedures here or in a separate rep	ort.)			

Hydrology

Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)			
Primary Indicators (minimum of or	ne required; c	heck 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 I				
Drift deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils				
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imager	ry (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)			
Field Observations:						
Surface Water Present? Yes	🔾 No 🖲	Depth (inches): 0				
Water Table Present? Yes	🔾 No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔿 No 🖲			
Saturation Present? (includes capillary fringe) Yes O No •		Depth (inches):0	Wetland Hydrology Present? Yes 🔾 No 🖲			
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		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	0			Species Across All Strata: <u>2</u> (B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:0.0%(A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:
<u> </u>	0			OBL species x 1 =
				FACW species X 2 =20
2				FAC species x 3 =
3	_			FACU species $100 \times 4 = 400$
4				UPL species x 5 =0
5				Column Totals:(A)(B)
67				
7		Total Cover		Prevalence Index = B/A = <u>3.818</u>
Herb Stratum (Plot size: 5)		- Total Cover		Hydrophytic Vegetation Indicators:
1. Phleum pratense	40	\checkmark	FACU	Rapid Test for Hydrophytic Vegetation
2. Poa pratensis			FACU	Dominance Test is > 50%
			FACU	Prevalence Index is \leq 3.0 ¹
3. Cirsium arvense 4. Solidago canadensis			FACU	Morphological Adaptations ¹ (Provide supporting
			FACW	data in Remarks or on a separate sheet)
5. Praiaris arundinacea 6.			TAOW	Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7 8				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
9 10				
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				
12		: Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u>)				greater than 3.28 ft (1m) 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
				Present? Yes No 🔍
Remarks: (Include photo numbers here or on a separate she	et.)			
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*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

US Army Corps of Engineers

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth <u>Matrix</u>		Redox Features					_				
(inches)	Color (%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-8	10YR	3/3	100						Silt Loam		
8-20	10YR	4/3	90	10YR	4/4	10	C	М	Silt Loam		
		-	-			-					
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					-						
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							_				
1											
		=Depletio	n. RM=Red	duced Matrix,	CS=Cover	red or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=N		
Hydric Soil						0.6	(0.0) (1.00.1	_	Indicators for Probl	ematic Hydric Soils: ³	
					value Belo A 149B)	w Surface	(S8) (LRR I	К,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
Black His	pipedon (A2)				Thin Dark Surface (S9) (LRR R, MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)		
	n Sulfide (A4)					Mineral (F1			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	d Layers (A5)				Loamy Gleyed Matrix (F2)		Dark Surface (S7) (LRR K, L, M)				
	Below Dark S	Surface (A	.11)	Dep	eted Matr	ix (F3)			Polyvalue Below Surface (S8) (LRR K, L)		
	ark Surface (A		,	Red	Redox Dark Surface (F6)				Thin Dark Surface (S9) (LRR K, L)		
	luck Mineral (S			🗌 Dep	eted Dark	Surface (F	7)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	leyed Matrix (Piedmont Floodplain Soils (F19) (MLRA 149B)				
	dy Redox (S5)					Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)					
Stripped	Matrix (S6)								Very Shallow Dark Surface (TF12)		
Dark Sur	face (S7) (LR	r r, mlra	A 149B)						Other (Explain in I		
³ Indicators of	of hydrophytic	vegetatio	n and weth	and hydrology	must be	present. ur	nless distur	bed or probl			
	Layer (if obs			<u> </u>							
Type:	Layer (II ODS	erveu):									
Depth (in	chos).								Hydric Soil Present?	Yes 🔿 No 🖲	
	unes).										
Remarks:											