WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis		Sampl	ing Date: 13-Sep-17
Applicant/Owner: Enbridge		State:	MN	Sampling Point:	w-50n19w7-b1
Investigator(s): DPT	Section, T	ownship, Range	e: S. 7	T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex	, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u> °
Subregion (LRR or MLRA): LRR K Lat	46 50.26	Lo	ng.: -92	48.1476	Datum: NAD 83
Soil Map Unit Name: B129B			N	WI classification	N/A
	antly disturbed? y problematic?	(If needed	al Circun I, explain	explain in Remar nstances" present any answers in R ansects, impo	Yes No
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland?	Yes	● _{No} ○	
Remarks: (Explain alternative procedures here or in a separate re	port.)				

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum of one required;	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)		Crayfish Burrows (C8)				
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)					
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)				
Iron Deposits (B5)						
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
	Uther (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 O No 🖲	Depth (inches): 0					
Saturation Present? Yes No •	Depth (inches):0	ydrology 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				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		Total % Cover of: Multiply by:
1 _ Alnus incana	70		FACW	OBL species 20 x 1 = 20
2				FACW species $80 \times 2 = 160$
3				FAC species $0 \times 3 = 0$
4.				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6				Column Totals: <u>100</u> (A) <u>180</u> (B)
7				Prevalence Index = B/A = 1.800
	70 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				\checkmark Rapid Test for Hydrophytic Vegetation
1. Carex Intumescens	10	\checkmark	FACW	✓ Dominance Test is > 50%
2. Calamagrostis canadensis	20	\checkmark	OBL	V Prevalence Index is \leq 3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			4
7	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
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				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	30 =	Total Cover		greater than 3.28 ft (1m) tall
· ·	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		C C C C C C C C C C C C C C C C C C C
				Hydrophytic
				Vegetation Present? Yes • 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.

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth <u>Matrix</u>			Redox Features								
(inches)		(moist)		Color (mois	t) %	Type ¹	Loc ²	Texture	Remarks		
0-9	10YR	2/1	100					Loam			
9-20	10YR	4/1	80	10YR 5	/6 20	C	М	Silt Loam			
	-		-								
	-	-			<u></u>	<u></u>		. <u></u>			
		·									
									,		
		-									
	contration [)_Doplatic	n PM-Pod	ucod Matrix CS_C	overed or Coa	tod Sand Cr		ation: PL=Pore Lining. M=N	Astrix		
51		Depletit	JII. KIVI=Keu			teu sanu Gi		5			
Hydric Soil						(_	Indicators for Probl	ematic Hydric Soils: ³		
Histosol (Polyvalue MLRA 149	Below Surface	e (S8) (LRR I	२,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
	pedon (A2)				Thin Dark Surface (S9) (LRR R, MLRA 149B)			Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist				_	icky Mineral (F			5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M)			
	n Sulfide (A4))			eyed Matrix (F2		,				
	Layers (A5)				Matrix (F3)	2)		 Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) 			
	Below Dark		(11)		rk Surface (F6)	N N					
	rk Surface (A				Dark Surface (F6)						
	uck Mineral (pressions (F8)	F7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	eyed Matrix ((S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Sandy Redox (S5)					Red Parent Material (F21)					
	Matrix (S6)							Very Shallow Dark Surface (TF12)			
Dark Surf	face (S7) (LR	R R, MLRA	A 149B)					Other (Explain in	Remarks)		
³ Indicators o	f hydrophytic	c vegetatio	on and wetla	ind hydrology must	t be present, u	Inless disturl	bed or probl	ematic.			
Restrictive L					•						
	ayei (ii obs	serveu):									
Туре:	1							Hydric Soil Present?	Yes 💿 No 🔾		
Depth (inc	nes):										
Remarks:											