WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampling Date: 12-Sep-17		
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n20w27-g1	
Investigator(s): PJK	Section, T	ownship, Range: S. 27	T. 51N	R. 20W	
Landform (hillslope, terrace, etc.): Mound	Local relief (c	oncave, convex, none):	convex	Slope: 5.2 % / 3.0 °	
Subregion (LRR or MLRA): LRR K	46 52.402	Long.: -92	2 51.3283	Datum: NAD 83	
Soil Map Unit Name: B127B			WI classification:	N/A	
Are Vegetation , Soil , or Hydrology naturally Summary of Findings - Attach site map showing	problematic? sampling p	. , .	any answers in Re ansects, impo	-	
Hydrophytic Vegetation Present?Yes ○No ●Hydric Soil Present?Yes ○No ●Wetland Hydrology Present?Yes ○No ●		e Sampled Area n a Wetland? Yes	○ _{No} ●		
Remarks: (Explain alternative procedures here or in a separate repo	ort.)				

Hydrology

Wetland Hydrology Indicators	s:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum		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 Aerial Imagery (B7)			Microtopographic Relief (D4)		
Sparsely Vegetated Concave	0 9 1 1	Uther (Explain in Remarks)	FAC-neutral Test (D5)		
	0411400 (20)				
Field Observations:					
	res 🔿 🛛 No 🖲	Depth (inches): 0			
Water Table Present? Y	res 🔿 🛛 No 🖲	Depth (inches):0			
Saturation Present? Yes O No •		Depth (inches): 0	drology Present? Yes 🔾 No 🖲		
Describe Recorded Data (stre	am gauge, monito	ring well, aerial photos, previous inspections), if ava	ailable:		
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>3</u> (B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:
	ō	_		OBL species x 1 =
1	0			FACW species $50 \times 2 = 100$
2				FAC species x 3 =
3				FACU speci es 65 x 4 = 260
4	-			UPL species x 5 =0
5				Column Totals: <u>115</u> (A) <u>360</u> (B)
6				
7				Prevalence Index = $B/A = 3.130$
Herb Stratum (Plot size: 5)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
	05		54014	Rapid Test for Hydrophytic Vegetation
1. Solidago gigantea	35		FACW	Dominance Test is > 50%
2. Rubus Idaeus			FACU	Prevalence Index is \leq 3.0 ¹
3. Spiraea alba			FACW	Morphological Adaptations ¹ (Provide supporting
4. Carex woodil		V	FACU	data in Remarks or on a separate sheet)
5. Cirsium arvense	25		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6				1 Tu diastana of hudeis sail and mattered hudeals an anot
7	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Deminitions 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
Woody Vine Stratum (Plot size: <u>30</u>)	115 =	Total Cover		greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1				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
4		Tatal Cause		height.
	=	Total Cover		
				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.

US Army Corps of Engineers

Profile Descr	ription: (De	scribe to	the depth	needed to document	the indicat	or or cor	firm the a	absence of indicators.)	
Depth		Matrix			lox Feature				
(inches)		(moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-6	10YR	3/4	100					Loam	
6-10	10YR	4/4	100					Silt Loam	
-	-	-	-						
	-								
	-			p					
								I	
	contration [)_Doplotic	n PM_Pod	used Matrix CS-Cover	d or Coatod	Sand Crai	ns 21.002	ation: PL=Pore Lining. M=Ma	triv
51		•	ni. Kivi–Keu					3	
Hydric Soil 1					c ((c			Indicators for Proble	matic Hydric Soils: ³
Histosol (Polyvalue Belov MLRA 149B)	v Surface (Sa	5) (LRR R,		2 cm Muck (A10) (I	RR K, L, MLRA 149B)
	pedon (A2)			Thin Dark Surfa	ace (S9) (LRI	R R. MLRA	(149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hist				Loamy Mucky M				5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	n Sulfide (A4))		Loamy Gleyed		,		Dark Surface (S7)	(LRR K, L, M)
_	Layers (A5)	C	11)	Depleted Matrix				Polyvalue Below Su	rface (S8) (LRR K, L)
	Below Dark		.11)	Redox Dark Su				Thin Dark Surface (S9) (LRR K, L)
	k Surface (A			Depleted Dark				Iron-Manganese Ma	asses (F12) (LRR K, L, R)
	uck Mineral (Redox Depress				Piedmont Floodplain	n Soils (F19) (MLRA 149B)
	eyed Matrix ((S4)						Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re								Red Parent Materia	l (F21)
	Matrix (S6)							Very Shallow Dark	Surface (TF12)
Dark Surf	face (S7) (LR	R R, MLRA	A 149B)					Other (Explain in Re	emarks)
³ Indicators of	f hydrophytic	c vegetatio	on and wetla	nd hydrology must be p	resent, unles	s disturbe	ed or proble	ematic.	
Restrictive L									
Type: <u>rc</u>									
Depth (inc								Hydric Soil Present?	Yes 🔾 No 🖲
• •	nes). <u>10</u>								
Remarks:									