WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Cou	nty: St. Louis	Sampling	Date: 15-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-50n19w7-e1
Investigator(s): DPT	Section	on, Township, Range: S.	7 T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Hillside		ef (concave, convex, nor		Slope: 14.0 % / 8.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.596	63 Long.:	-92 47.4028	Datum: NAD 83
Soil Map Unit Name: B127B			NWI classification:	
Are climatic/hydrologic conditions on the site	typical for this time of year?	Yes ● No ○ (I	- If no, explain in Remarks.)
Are Vegetation , Soil , or Hydr		,	rcumstances" present?	Yes ● No ○
Are Vegetation , Soil , or Hydr			plain any answers in Rem	arke)
Summary of Findings - Attach si		` ,	•	•
Hydrophytic Vegetation Present? Yes	No •			
Hydric Soil Present? Yes		Is the Sampled Area within a Wetland?	Yes ○ No ●	
Wetland Hydrology Present? Yes	No •	Willing Welland:	100 - 1.10	
Remarks: (Explain alternative procedures h				
Hydrology Wetland Hydrology Indicators:			econdary Indicators (minimu	m of 2 required)
Primary Indicators (minimum of one require	d; check all that apply)		Surface Soil Cracks (B6)	III Oi Z rogunou,
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)	Ĺ	Dry Season Water Table	(C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	L	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres along		Saturation Visible on Aeri	0 3 . ,
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)	Presence of Reduced Iron (C4	_	Stunted or Stressed PlantGeomorphic Position (D2)	• •
Iron Deposits (B5)	Recent Iron Reduction in Tille Thin Muck Surface (C7)	d Solis (C6)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (I	D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain tomaile,		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	Depth (inches): 0	Wetland Hydrol	ogy Present? Yes	No 💿
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previou	us inspections), if availab	ole:	
Remarks:				

VEGETATION - Use scientific names of plants

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(No. 1 - 20	Absolute		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: 3 (B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:
6	0			That Aic OBE, TACW, OF FAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:
	0			0BL speci es x 1 =0
1				FACW species 0 x 2 = 0
2				FAC speci es x 3 = 0
3	-			FACU species
4				UPL speci es $0 \times 5 = 0$
5				Column Totals: 100 (A) 400 (B)
6				
7		= Total Cover		Prevalence Index = B/A = 4.000
Herb Stratum (Plot size: 5		i otal Cover		Hydrophytic Vegetation Indicators:
	40	✓	FACU	Rapid Test for Hydrophytic Vegetation
0.0			FACU	☐ Dominance Test is > 50%
- 4			FACU	☐ Prevalence Index is \leq 3.0 1
4. T.K.II		✓	FACU	Morphological Adaptations ¹ (Provide supporting
- 1 - to		✓	FACU	data in Remarks or on a separate sheet)
			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				_
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
l1				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	Total Cover		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				Weed wine. All weeds vines greater than 2.29 ft in
1	0			Woody vine - All woody vines greater than 3.28 ft in height.
т.	0 =	Total Cover		
		- rotal corel		
				Hydrophytic
				Vegetation Yes ○ No ●
				Present: 100 0 110 0
Remarks: (Include photo numbers here or on a separate sh	eet.)			

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

Soil Sampling Point: u-50n19w7-e1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Depth Matrix Redox Features					_					
(inches)	Color (moist)	<u>%</u>	Color (%	Type ¹	Loc2	Texture	Remarks	
0-8	10YR	3/4	100						Sandy Loam		
8-20	10YR	4/3	90	10YR	4/6	10	С	М	Silt Loam		
				-	-	-					
		-	-	-	-						
				-	p-						
			-	-							
1 Type: C=Cond	entration. D	=Depletio	n. RM=Red	uced Matrix.	CS=Covere	ed or Coate	ed Sand Gr	rains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I		_ 0010110				Joun		2000			
Histosol (A				Poly	zalue Relov	w Surface	(S8) (I RP	R		ematic Hydric Soils: 3	
	pedon (A2)				4 149B)	N Surface	(30) (LIKIK	Ιζ,		(LRR K, L, MLRA 149B)	
Black Histi				Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)		x (A16) (LRR K, L, R)	
_	Sulfide (A4)			Loar	ny Mucky I	Mineral (F1) LRR K, L)		or Peat (S3) (LRR K, L, R)	
	Layers (A5)			Loar	ny Gleyed	Matrix (F2))		Dark Surface (S7)		
	Below Dark :	Surface (A	11)	Depl	eted Matri	x (F3)			☐ Polyvalue Below Surface (S8) (LRR K, L)		
	k Surface (A		,	Redo	x Dark Su	rface (F6)			☐ Thin Dark Surface		
	ck Mineral (S			Depl	eted Dark	Surface (F	7)			lasses (F12) (LRR K, L, R)	
	yed Matrix (Redo	x Depress	ions (F8)				in Soils (F19) (MLRA 149B)	
Sandy Red		,							_) (MLRA 144A, 145, 149B)	
Stripped N									Red Parent Materi		
	ace (S7) (LR	R R, MLRA	149B)						Very Shallow Dark		
							P		Other (Explain in F	Remarks)	
³ Indicators of			n and wetta	ina nyarology	must be p	resent, un	iless distur	bed or proble	ematic.		
Restrictive La	ayer (if obs	erved):									
Type:									Hydric Soil Present?	Yes ○ No •	
Depth (inch	nes):								nyuric Soil Present?	Yes ○ No •	
Remarks:											