WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 15-Sep-17						
Applicant/Owner: Enbridge	State:	MN Sampling Point: u-50n19w17-f2						
Investigator(s): SMR	Section, Township, Ran	ge: S. 17 T. 50N R. 19W						
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, conve							
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.3228	Long.: -92 46.8541						
Soil Map Unit Name: F137B		NWI classification: N/A						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrold		rmal Circumstances" present? Yes No						
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)								
Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc								
Hydrophytic Vegetation Present? Yes	No •	•						
Hydric Soil Present? Yes	No • Is the Sampled Are within a Wetland?	ea Yes ○ No •						
Wetland Hydrology Present? Yes	No •							
Remarks: (Explain alternative procedures here	or in a senarate report)							
Hydrology Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)						
Primary Indicators (minimum 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) Water Marks (B1)	Marl Deposits (B15)	Dry Season Water Table (C2)						
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Ovidized Phizosphores along Living Poets (C2)	☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9)						
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)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)	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	w O w O						
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	Hydrology Present? Yes O No 💿						
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspections), if a	available:						
Remarks:								
Remarks.								

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: u-50n19w17-f2				
(8) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1				That are OBL, FACW, or FAC:1 (A)	
2				Total Number of Dominant	
3	0			Species Across All Strata: 3 (B)	
4	0				
5				Percent of dominant Species	
6				That Are OBL, FACW, or FAC: 33.3% (A/B)	
7				Prevalence Index worksheet:	
	0 = Total Cover			Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 0 x 1 = 0	
1	0			FACW species 20 x 2 = 40	
2	0			FAC species x 3 =	
3				<u> </u>	
4				FACU species $80 \times 4 = 320$	
5	0			UPL speci es $0 \times 5 = 0$	
6.				Column Total s: 100 (A) 360 (B)	
7				Prevalence Index = B/A = 3.600	
		Total Cove			
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation	
1Tanacetum vulgare	30	✓	FACU		
2. Solidago canadensis			FACU	☐ Dominance Test is > 50%	
3. Poa pratensis	20	✓	FACU	☐ Prevalence Index is ≤3.0 ¹	
4. Lolium perenne	10		FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. Phalaris arundinacea	00	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
6. Phleum pratense			FACU	Problematic nydrophytic vegetation (Explain)	
7				¹ Indicators of hydric soil and wetland hydrology must	
8		$\overline{\Box}$		be present, unless disturbed or problematic.	
9				Definitions of Vegetation Strata:	
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1				at breast neight (BBH), regulatess of height.	
2				Sapling/shrub - Woody plants less than 3 in. DBH and	
Woody Vine Stratum (Plot size: 30)	=	Total Cove	r	greater than 3.28 ft (1m) tall	
1	0			Herb - All herbaceous (non-woody) plants, regardless of	
2	0	Ē		size, and woody plants less than 3.28 ft tall.	
3		$\overline{\sqcap}$			
4		$\overline{\Box}$		Woody vine - All woody vines greater than 3.28 ft in height.	
4		Total Cove		Thoight.	
		- IOtal Cove	•		
				Hydrophytic	
				Vegetation	
				Present? Yes V No V	
Remarks: (Include photo numbers here or on a separate s	sheet.)				

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

Soil Sampling Point: u-50n19w17-f2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth					_			
(inches)	Color (moist)		Color (moist)	<u>% Type</u> 1	Loc2	Texture	Remarks	
0-11	10YR 4/3	100				Sandy Clay Loam		
			-					
			-			-		
¹ Type: C=Cond	centration. D=Depletion	on. RM=Reduc	ed Matrix, CS=Covere	ed or Coated Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Ma	atrix	
Hydric Soil I			<u> </u>				ematic Hydric Soils: 3	
Histosol (A			Polyvalue Belov	v Surface (S8) (LRR R				
	pedon (A2)		MLRA 149B)	(, (,	,		LRR K, L, MLRA 149B)	
Black Hist			☐ Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4)		Loamy Mucky N	Mineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)	
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)		
	Below Dark Surface (A	A11)	Depleted Matrix				urface (S8) (LRR K, L)	
	k Surface (A12)	,	Redox Dark Su	rface (F6)		Thin Dark Surface		
	ck Mineral (S1)		Depleted Dark	Surface (F7)			asses (F12) (LRR K, L, R)	
	eyed Matrix (S4)		Redox Depress	ions (F8)			in Soils (F19) (MLRA 149B)	
Sandy Red						Red Parent Materia) (MLRA 144A, 145, 149B)	
	Matrix (S6)						• •	
	ace (S7) (LRR R, MLR	A 149B)				✓ Very Shallow Dark✓ Other (Explain in R		
			d bda.a.la.a				emarks)	
		on and wettan	a nyarology must be p	resent, unless disturb	ed of proble	ematic.		
	ayer (if observed):							
Type: <u>ro</u>						Hydric Soil Present?	Yes ○ No •	
Depth (incl	hes): 11					nyuric Soil Present?	Yes ○ No ●	
Remarks:								