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-50n19w7-c2
Investigator(s): DPT	Section, Township, Range:	s. 7
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, n	
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.8264 Long	-92 47.7745 Datum: NAD 83
Soil Map Unit Name: B118A		NWI classification: PFOB
Are climatic/hydrologic conditions on the site typ	ical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog		Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrolog		explain any answers in Remarks.)
, _ , ,	map showing sampling point location	• •
Hydrophytic Vegetation Present? Yes	No •	
Hydric Soil Present? Yes	No Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present?	No •	
Remarks: (Explain alternative procedures here	or in a separate report.)	
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; compared)	check all that apply)	Secondary Indicators (minimum of 2 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) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) 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)	Other (Explain in Contacts)	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 Hydr	ology Present? Yes O No 🖲
	ring well, aerial photos, previous inspections), if avail-	able:
Remarks:		

VEGETATION - Use scientific names of plants

4-1	Absolute		Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species		
1	0			That are OBL, FACW, or FAC:0(A)		
2	0					
3				Total Number of Dominant Species Across All Strata: 2 (B)		
4				Species Across Air Strata.		
5				Percent of dominant Species		
				That Are OBL, FACW, or FAC: 0.0% (A/B)		
6						
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cover	•	Total % Cover of: Multiply by:		
1	0			0BL speci es <u>10</u> x 1 = <u>10</u>		
				FACW species x 2 =		
2				FAC speci es0 x 3 =0		
3				FACU species 90 x 4 = 360		
4	=			UPL species x 5 =0		
5				Column Total s: 100 (A) 370 (B)		
6				COLUMN TOTALS: 100 (A) 370 (5)		
7	0			Prevalence Index = B/A = 3.700		
Herb Stratum (Plot size: 5)	0 =	= Total Cover		Hydrophytic Vegetation Indicators:		
Herb Stratum (Fiot Size)	-			Rapid Test for Hydrophytic Vegetation		
1. Tanacetum vulgare	60	✓	FACU	Dominance Test is > 50%		
2. Poa pratensis	10		FACU			
3. Solidago canadensis	_20_	✓	FACU	Prevalence Index is ≤3.0 ¹		
4. Glyceria striata	10		OBL	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation ¹ (Explain)		
6				Froblematic Hydrophytic Vegetation (Explain)		
7				¹ Indicators of hydric soil and wetland hydrology must		
				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		
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	100	= Total Cover	•	greater than 3.28 ft (1m) tall		
	0			Llowh All harbassaus (non woods) plants regardless of		
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
2						
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4				height.		
	0 =	= Total Cover	•			
				Hydrophytic Vegetation		
				Present? Yes O No •		
Demonstra (Tarakada uhata umuhana hana ayan a anamata ahan	-4.\					
Remarks: (Include photo numbers here or on a separate she	et.)					

Sampling Point: u-50n19w7-c2

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

Soil Sampling Point: u-50n19w7-c2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth		Matrix			dox Features		_	
(inches)	Color (%	Color (moist)	<u>%</u> <u>Type</u> ¹	Loc2	Texture Remarks	
0-16	10YR	4/4	100				Sandy Clay Loam	
16-20	10YR	3/4	100				Sandy Clay Loam	
		-	-					
			-					
		=Depletio	n. RM=Red	duced Matrix, CS=Covere	ed or Coated Sand Gra	ins ² Loca	cation: PL=Pore Lining. M=Matrix	
Hydric Soil I							Indicators for Problematic Hydric Soils: 3	
Histosol (☐ Polyvalue Belov MLRA 149B)	w Surface (S8) (LRR R	,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	pedon (A2)				ace (S9) (LRR R, MLR	Δ 149R)	Coast Prairie Redox (A16) (LRR K, L, R)	
☐ Black Hist					Mineral (F1) LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
	Sulfide (A4)			Loamy Gleyed			Dark Surface (S7) (LRR K, L, M)	
	Layers (A5) Below Dark S	urfaco (A:	11\	Depleted Matri			Polyvalue Below Surface (S8) (LRR K, L)	
	k Surface (A1		11)	Redox Dark Su			Thin Dark Surface (S9) (LRR K, L)	
	uck Mineral (S			Depleted Dark	Surface (F7)		Iron-Manganese Masses (F12) (LRR K, L, R)	
	eyed Matrix (S			Redox Depress	ions (F8)		Piedmont Floodplain Soils (F19) (MLRA 1498	
Sandy Re		,					Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	Matrix (S6)						☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (TF12)	
	ace (S7) (LRF	R, MLRA	149B)				Other (Explain in Remarks)	
3 Indicators of	f budrophutic	vogotatio	n and wat	and hydrology must be p	vrocont unloss disturb	ad ar probl		
			ii aiiu weti	and flydrology must be p	nesent, unless disturb	ed of proble	ilematic.	
Restrictive L	ayer (if obs	erved):						
Type:	J \						Hydric Soil Present? Yes ○ No ●	
Depth (inc	nes):						7, 111 111 111 111 111 111 111	
Remarks:								