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: w-50n20w12-a1
Investigator(s): SMR	Section, Township, Range: S.	12 T. 50N R. 20W
Landform (hillslope, terrace, etc.): Footslope	Local relief (concave, convex, none	
Subregion (LRR or MLRA): LRR K	Lat.: 46 50.2280 Long.:	-92 48.5271 Datum: NAD 83
Soil Map Unit Name: B127B		NWI classification: PSSB
Are climatic/hydrologic conditions on the site typical f	or this time of year? Yes No (If	no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology		cumstances" present? Yes No
Are Vegetation , Soil , or Hydrology		ain any answers in Remarks.)
Summary of Findings - Attach site map	, , ,	•
Hydrophytic Vegetation Present? Yes • No		
Hydric Soil Present? Yes ● No	Is the Sampled Area within a Wetland?	res No
Wetland Hydrology Present? Yes ● No		
Remarks: (Explain alternative procedures here or in	a separate report.)	
Hydrology		
Wetland Hydrology Indicators:	Sec	condary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check	all that apply)	Surface Soil Cracks (B6)
	Water-Stained Leaves (B9)	Drainage Patterns (B10)
	Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines (B16) Dry Season Water Table (C2)
	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
	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): 3	gy Present? Yes No
Saturation Present? (includes capillary fringe) Yes No No	Depth (inches): 0 Wetland Hydrolog	*
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspections), if available	o:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	Sampling Point: w-50n20w12-a1			
(0) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:3(A)
2				Total Number of Dominant
3				Species Across All Strata:3(B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6				That Are OBL, FACW, OF FAC:
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	r	Total % Cover of: Multiply by:
1 Alnus Incana	90	✓	FACW	OBL speci es 100 x 1 = 100
2		Ť		FACW species 90 x 2 = 180
3	=	H		FAC species $0 \times 3 = 0$
4		П		FACU species $0 \times 4 = 0$
5		П		UPL speci es x 5 =0
		Ī		Column Total s: 190 (A) 280 (B)
6				
7		- Total Cava		Prevalence Index = B/A = 1.474
Herb Stratum (Plot size: 5	90 =	= Total Cove		Hydrophytic Vegetation Indicators:
1. Carex lacustris	80	✓	OBL	Rapid Test for Hydrophytic Vegetation
0.04			OBL	✓ Dominance Test is > 50%
			ODL	✓ Prevalence Index is ≤3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4		П		data in Remarks or on a separate sheet)
5		П		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				Definitions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	= Total Cove	r	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				Woody vine - All woody vines greater than 3.28 ft in
4				height.
T	0 =	= Total Cove		
				Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate sl	neet.)			

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

Soil Sampling Point: w-50n20w12-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth							-			
(inches)	Color	(moist)	<u>%</u>	Color (moist)	%_	Type	Loc2	Texture	Remarks
0-10	10YR	2/1	100						Muck	
10-20	10YR	4/1	75	10YR	4/3	25	С	М	Silt Loam	
	-	-							-	
		-				-				
		-		-		-	-	-		
						-				
¹ Type: C=Cond	centration. [D=Depletio	n. RM=Red	uced Matrix, (CS=Covere	ed or Coate	ed Sand G	ains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydric Soils: 3
Histosol (A	A1)					w Surface ((S8) (LRR	R,		
✓ Histic Epip	edon (A2)			MLR	4 149B)					(LRR K, L, MLRA 149B) x (A16) (LRR K, L, R)
☐ Black Histi	ic (A3)			Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)		
	Sulfide (A4))		Loan	ny Mucky I	Mineral (F1) LRR K, L)		or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loan	ny Gleyed	Matrix (F2))		Dark Surface (S7)	
Depleted I	Below Dark	Surface (A	11)	Depl	eted Matri	x (F3)				urface (S8) (LRR K, L)
	k Surface (A			Redo	x Dark Su	rface (F6)			☐ Thin Dark Surface	
	ck Mineral (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 Materia	
	ace (S7) (LR	R R. MI RA	149B)						☐ Very Shallow Dark	
									Other (Explain in F	Remarks)
³ Indicators of	hydrophyti	c vegetatio	n and wetla	nd hydrology	must be p	resent, un	ıless distur	bed or probl	ematic.	
Restrictive La	ayer (if ob:	served):								
Type:										
Depth (inch	nes):								Hydric Soil Present?	Yes No
Remarks:										
rtemants.										