WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	ounty: St. Louis	Sampli	ng Date: 15-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n19w17-f4
Investigator(s): DPT		Sec	tion, Township, Range:	s. 17 t. 50N	R. 19W
Landform (hillslope, terrace,	etc.): Lowland		elief (concave, convex, r		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 49.4	.169 Long	-92 47.970	Datum: NAD 83
Soil Map Unit Name: B148A				NWI classification:	PFOB
Are climatic/hydrologic cond	litions on the site ty	vical for this time of year?	Yes No	— (If no, explain in Remark	s.)
Are Vegetation \Box , Soil	_		rbed? Are "Normal	Circumstances" present?	Yes ● No ○
Are Vegetation, Soil		· · ·		explain any answers in Re	marke \
- ,	_ , ,	e map showing sampli	,	•	•
Hydrophytic Vegetation Pre		No O		<u> </u>	
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present	? Yes ⊙	No O	Willill a Welland:		
Remarks: (Explain alterna	tive procedures here	e or in a separate report.)			
Hydrology					
Wetland Hydrology Indicate		-tt-all that apply)		Secondary Indicators (minin	
Primary Indicators (minimus Surface Water (A1)	ım or one requireu;			Surface Soil Cracks (B6) Drainage Patterns (B10)	
✓ High Water Table (A2)		Water-Stained Leaves (B9) Aquatic Fauna (B13)		Moss Trim Lines (B16))
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Table	e (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1))	Crayfish Burrows (C8)	- ()
Sediment Deposits (B2)		Oxidized Rhizospheres along		Saturation Visible on Ae	erial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron (Stunted or Stressed Pla	nts (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Til	illed Soils (C6)	✓ Geomorphic Position (D	2)
Iron Deposits (B5)		☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aeria		Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Concar	/e Surface (B8)			✓ FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes • No O	Depth (inches): 8	3		
Water Table Present?	Yes No	Depth (inches):0		rology Present? Yes	● No ○
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):0		rology Present? Yes	
Describe Recorded Data (st	ream gauge, monito	oring well, aerial photos, previ	ous inspections), if avai	lable:	
Remarks:					

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	ants			Sampling Point: w-50n19w17-f4
(Dist. 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: (A)
2				Total Number of Dominant
3	0			Species Across All Strata:
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	80	✓	FACW	0BL speci es 100 x 1 = 100
2				FACW species 80 x 2 = 160
3	=			FAC speci es x 3 =
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
		П	-	Column Totals: <u>180</u> (A) <u>260</u> (B)
6		Ī		
7		Total Cava		Prevalence Index = B/A = 1.444
Herb Stratum (Plot size: 5		: Total Cove	г	Hydrophytic Vegetation Indicators:
	90	✓	OBL	Rapid Test for Hydrophytic Vegetation
			OBL	✓ Dominance Test is > 50%
			OBL	✓ Prevalence Index is ≤3.0 ¹
3				☐ Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				1 Tudicators of hydric sail and wathand hydrology must
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strate.
9				Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2	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				Mankarian Allacanda sinan mantanthan 2 00 ft in
4				Woody vine - All woody vines greater than 3.28 ft in height.
4	0 =	: Total Cove	-	insign.
		· rotal cove	•	
				Hydrophytic Vegetation Present? Yes No
				Present? 100 0 No 0
Remarks: (Include photo numbers here or on a separate s	heet.)			
	•			

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

Soil Sampling Point: w-50n19w17-f4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth <u>Matrix</u>		Redox Features				_						
(inches)	Color	(moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks		
0-3	10YR	2/1	100						Muck			
3-20	10YR	4/1	80	10YR	4/6	20	С	M	Loamy Sand			
-												
	-				-				-			
	-											
	-				-							
	-	-					-					
1 Type: C=Conc	entration. I	– D=Depletio	n. RM=Redi	uced Matrix. (CS=Cover	ed or Coate	ed Sand G	rains ² Loca	ation: PL=Pore Lining. M=M	latrix		
Hydric Soil I		•	Rou									
Histosol (A				Dolya	alue Rolo	w Surface	(S8) (I DD	R		ematic Hydric Soils: 3		
Histosof (A	•				149B)	vv Juliace	(JU) (LNK	11,		(LRR K, L, MLRA 149B)		
Black Histic				Thin	Dark Surf	ace (S9) (I	LRR R, ML	RA 149B)		x (A16) (LRR K, L, R)		
Hydrogen)		Loam	Loamy Mucky Mineral (F1) LRR K, L)			.)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Stratified L				Loam	y Gleyed	Matrix (F2))		Dark Surface (S7) (LRR K, L, M)			
	Below Dark		11)	Deple	eted Matri	x (F3)				urface (S8) (LRR K, L)		
☐ Thick Dark			,	Redo	lox Dark Surface (F6)				☐ Thin Dark Surface (S9) (LRR K, L)			
Sandy Muc				Deple	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy Gley				Redo	x Depress	sions (F8)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		(0.)							☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
									Red Parent Material (F21)			
☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR R, MLRA 149B)					☐ Very Shallow Dark Surface (TF12)							
									Other (Explain in F	Remarks)		
³ Indicators of	hydrophyti	c vegetatio	n and wetla	nd hydrology	must be p	oresent, un	less distur	bed or probl	ematic.			
Restrictive La	yer (if ob	served):										
Type:												
Depth (inch	nes):								Hydric Soil Present?	Yes No		
Remarks:												
1												