WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	unty: St. Louis	Samplir	ng Date: 14-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n19w16-a2
Investigator(s): DPT		Sect	ion, Township, Range:	s. 16 t. 50N	R. 19W
Landform (hillslope, terrace,	, etc.): Lowland		lief (concave, convex, n		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 48.61	103 Long	-92 45.6645	Datum: NAD 83
Soil Map Unit Name: F175A	\ \			NWI classification:	PFOB
Are climatic/hydrologic cond	ditions on the site ty	pical for this time of year?	Yes ● No ○	— (If no, explain in Remark	s.)
Are Vegetation, Soi	_		bed? Are "Normal	Circumstances" present?	Yes ● No ○
Are Vegetation , Soi				explain any answers in Re	marks.)
- ,	_ , ,	e map showing sampli	,		•
Hydrophytic Vegetation Pre	esent? Yes •	No O			
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present	t? Yes 💿	No O	Within a Wedana.		
Remarks: (Explain alterna	tive procedures her	e or in a separate report.)			
Hydrology					
Wetland Hydrology Indicat	ors:			Secondary Indicators (minim	num of 2 required)
Primary Indicators (minim	um 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)		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	- · · · ·
Drift deposits (B3)		Presence of Reduced Iron (0	•	Stunted or Stressed Plan	• •
Algal Mat or Crust (B4)		Recent Iron Reduction in Till	led Soils (C6)	Geomorphic Position (D	2)
Iron Deposits (B5)	(07)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aeria		Uther (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Conca	ve Surface (B8)			✓ FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes ● No ○	Depth (inches): 4			
Water Table Present?	Yes ● No ○	Depth (inches):0			.
Saturation Present? (includes capillary fringe)	Yes ● No ○	Depth (inches): 0		rology Present? Yes	● No ○
Describe Recorded Data (st	tream gauge, monit	oring well, aerial photos, previo	ous inspections), if avail	able:	
Remarks:					

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-50n19w16-a2					
(Dlat size. 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						
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
6				That are OBL, FACW, OF FAC:		
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15)	=	Total Cove	r	Total % Cover of: Multiply by:		
1 Alnus Incana	80	✓	FACW	OBL speci es x 1 =		
2				FACW species 80 x 2 = 160		
3		H		FAC speciles x 3 =		
4		П		FACU species x 4 =0		
5				UPL species $0 \times 5 = 0$		
		Ī		Column Total s: 150 (A) 230 (B)		
6						
7		Total Cause		Prevalence Index = B/A = 1.533		
Herb Stratum (Plot size: 5)	80 =	Total Cove	ı	Hydrophytic Vegetation Indicators:		
	50	✓	OBL	Rapid Test for Hydrophytic Vegetation		
0.04			OBL	✓ Dominance Test is > 50%		
			OBL	✓ Prevalence Index is \leq 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 To disease of body's as it and wattened body to an arrow		
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8						
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				Capling/abrub Woody plants loss than 2 in DPH and		
Woody Vine Stratum (Plot size: 30)	=	Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
1	0			Herb - All herbaceous (non-woody) plants, regardless of		
2		$\overline{\sqcap}$		size, and woody plants less than 3.28 ft tall.		
3				Manda di cina All con adi coina a praestari them 2 20 ft in		
4				Woody vine - All woody vines greater than 3.28 ft in height.		
4.		Total Cove		Thoight.		
		- Total Cove	ı			
				Hydrophytic Vegetation Present? Yes No		
Remarks: (Include photo numbers here or on a separate s	heet.)					
Remarks: (Include photo numbers here or on a separate s	neet.)					

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

Soil Sampling Point: w-50n19w16-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth Matrix					dox Featu			_				
(inches)	Color	(moist)	<u>%</u>	Color (moist)	%	Type	Loc2	Texture	Remarks		
0-5	10YR	2/1	100						Muck			
5-14	10YR	3/2	90	10YR	4/4	10	С	M	Sandy Clay Loam			
				-					-			
	-	-							-			
				-								
	-			-	-							
				-								
¹ Type: C=Cond	centration. I	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				Poly	/alue Belov	w Surface	(S8) (LRR	R,				
Histic Epip	•			MLR	4 149B)					(LRR K, L, MLRA 149B)		
Black Histi				Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
	Sulfide (A4)		Loar	ny Mucky I	Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)			Loar	ny Gleyed	Matrix (F2))		Dark Surface (S7) (LRR K, L, M)			
	Below Dark		11)	Depl	eted Matri	x (F3)			_	urface (S8) (LRR K, L)		
	k Surface (A		,	✓ Redox Dark Surface (F6)					☐ Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (☐ Depl	Depleted Dark Surface (F7)				☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	yed Matrix			Redo	x Depress	ions (F8)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		(34)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
									Red Parent Material (F21)			
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)												
									Other (Explain in F	Remarks)		
³ Indicators of	hydrophyti	c vegetatio	n and wetla	nd hydrology	must be p	oresent, un	ıless distur	bed or probl	ematic.			
Restrictive La	ayer (if ob	served):										
Type: _ro		•										
Depth (inch									Hydric Soil Present?	Yes No		
•	100)1											
Remarks:												