WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	ounty: St. Louis	Samp	ling Date: 15-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n19w8-a2
Investigator(s): DPT		Sec	ction, Township, Range:	s. 8 t. 50N	R. 19W
Landform (hillslope, terrace,	, etc.): Lowland		relief (concave, convex, r		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 49.4	4518 Lon e	9.: -92 47.1464	Datum: NAD 83
Soil Map Unit Name: B127B	}			NWI classification	: N/A
Are climatic/hydrologic cond	ditions on the site ty	pical for this time of year?	Yes ● No ○	(If no, explain in Rema	rks.)
Are Vegetation, Soil	_		rbed? Are "Normal	Circumstances" present	·
Are Vegetation, Soil		· · ·		explain any answers in R	
. .	_ , ,	e map showing sampl	,	· ·	•
Hydrophytic Vegetation Pre		No O		•	
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present	:? Yes ⊙	No O	Willill a WCuana:		
Remarks: (Explain alterna	tive procedures her	e or in a separate report.)			
_					
Hydrology					
Wetland Hydrology Indicate				Secondary Indicators (mir	nimum of 2 required)
Primary Indicators (minimu	um of one required;	check all that apply)		Surface Soil Cracks (E	
Surface Water (A1)		Water-Stained Leaves (B9))	☐ Drainage Patterns (B1	
✓ High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16	•
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Ta	
Water Marks (B1)		Hydrogen Sulfide Odor (C1		Crayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres alor		Saturation Visible on	
Drift deposits (B3) Algal Mat or Crust (B4)		Presence of Reduced Iron	• •	Stunted or Stressed P Geomorphic Position	• •
Iron Deposits (B5)		Recent Iron Reduction in T	illed Soils (C6)	_ '	• •
Inundation Visible on Aeria	al Imagary (P7)	☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Sparsely Vegetated Concar		Other (Explain in Remarks))	✓ Microtopographic Reli✓ FAC-neutral Test (D5)	
Sparsery vegetated conca	ve Surface (Bo)			FAC-fleutial Test (D5)	
Field Observations:	Yes No				
Surface Water Present?		Depth (inches):	6		
Water Table Present?	Yes ● No ○	Depth (inches):	<u> </u>	D	• No O
Saturation Present? (includes capillary fringe)	Yes ● No ○	Depth (inches):	Wetland Hyd	rology Present? Yes	NO C
Describe Recorded Data (st	ream gauge, monit	oring well, aerial photos, prev	ious inspections), if avai	lable:	
Domorko					
Remarks:					

VEGETATION - Use scientific names of plants

	Sampling Point: w-50n19w8-a2			
(Diet 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	0			That We obe, Thow, of the
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove		Total % Cover of: Multiply by:
1 Alnus incana	5	✓	FACW	0BL speciles 100 x 1 = 100
2	0			FACW species <u>5</u> x 2 = <u>10</u>
3		\Box		FAC speciles x 3 =0
4	-	\Box		FACU species $0 \times 4 = 0$
5		\Box		UPL speci es $0 \times 5 = 0$
6		П		Column Totals: 105 (A) 110 (B)
7				Prevalence Index = B/A = 1.048
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
1. Scirpus cyperinus	70	✓	OBL	
2. Typha x glauca	20	✓	OBL	
3. Carex lacustris	10		OBL	✓ Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Troblemate tryatophytic regetation (Explain)
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10		\Box		Troe Woody plants 2 in /7.6 am) or mare in diameter
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12				
		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				greater than 3.20 it (1111) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cove		
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate shee	et.)			

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

Soil Sampling Point: w-50n19w8-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth			Redox Features				-				
(inches)	Color (ı		%	Color (moist)	%_	Type ¹	Loc²	Texture	Remarks	
0-3	10YR	2/1	100						Muck		
3-16	10YR	4/2	95	10YR	4/4	5	С	M	Sandy Loam		
16-20	10YR	4/1	90	10YR	4/6	10	С	М	Sandy Clay Loam		
		-				-					
		-			-	-			-		
						-					
		-									
							_				
1 Type: C=Cond	entration D	– Denletio	n RM-Red	uced Matrix (^S=Covere	ed or Coate	ed Sand Gr	ains 21 oca	ation: PL=Pore Lining. M=Ma	atriv	
Hydric Soil I		- pehicul	KIVI-KEU	acca iviali iX, (JJ-CUVEI 6	ou or codi	ou Janu Ul	ania LUCC			
Histosol (A				Polya	zalue Rolos	w Surface	(S8) (I RP I	2		ematic Hydric Soils: 3	
	edon (A2)				Polyvalue Below Surface (S8) (LRR R, MLRA 149B)			-1	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Black Histi				Thin	Dark Surfa	ace (S9) (LRR R, MLI	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)		
	Sulfide (A4)			Loan	ny Mucky N	Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Stratified I	Layers (A5)				-	Matrix (F2))		☐ Dark Surface (S7) (LRR K, L, M) ☐ Polyvalue Below Surface (S8) (LRR K, L)		
Depleted F	Below Dark S	Surface (A	11)		eted Matri						
☐ Thick Dark	c Surface (A1	2)			x Dark Su				☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mu	ck Mineral (S	1)				Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gle	yed Matrix (S	64)		∟ Redo	Redox Depressions (F8)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Redox (S5)							Red Parent Material (F21)				
	Stripped Matrix (S6)					☐ Very Shallow Dark Surface (TF12)					
☐ Dark Surfa	ace (S7) (LRF	R R, MLRA	A 149B)						Other (Explain in Remarks)		
³ Indicators of	hydrophytic	vegetatio	n and wetla	ınd hydrology	must be p	resent, un	ıless distur	bed or proble	ematic.		
Restrictive La	ayer (if obs	erved):									
Type:											
Depth (inch	nes):								Hydric Soil Present?	Yes ● No ○	
Remarks:											