WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Cou	unty: St. Louis	Sampli	ng Date: 13-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n19w7-c1
Investigator(s): DPT		Secti	ion, Township, Range:	s. 7 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 49.94	109 Long	-92 47.9501	Datum: NAD 83
Soil Map Unit Name: B118				NWI classification:	PSSB
Are climatic/hydrologic cond	ditions on the site ty	pical for this time of year?	Yes No	— (If no, explain in Remark	rs.)
Are Vegetation, Soi	l 🗌 , or Hydrol	ogy significantly disturb	bed? Are "Normal	Circumstances" present?	Yes No
Are Vegetation, Soi	I, or Hydrol	ogy naturally problema	tic? (If needed, e	explain any answers in Re	emarks.)
_ ,		e map showing sampli	,	•	•
Hydrophytic Vegetation Pre	esent? Yes •	No O			
Hydric Soil Present?	Yes		Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present	.? Yes ⊙	No O	Within a Fredama.		
Remarks: (Explain alterna	tive procedures here	e or in a separate report.)			
Hydrology					
Wetland Hydrology Indicat	ors:			Secondary Indicators (minir	mum of 2 required)
Primary Indicators (minimum		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	Living Roots (C3)	Saturation Visible on A	erial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron (C	•	Stunted or Stressed Pla	
Algal Mat or Crust (B4)		Recent Iron Reduction in Till	•	✓ Geomorphic Position ([, ,
Iron Deposits (B5)		Thin Muck Surface (C7)	ou 005 (00)	Shallow Aquitard (D3)	· - /
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relie	f (D4)
Sparsely Vegetated Conca		Uther (Explain in Remarks)		FAC-neutral Test (D5)	. (5.)
Field Observations:	Yes ● No ○	Depth (inches): 3			
Surface Water Present?	Yes • No O	· · · · · · · · · · · · · · · · · · ·			
Water Table Present? Saturation Present?		Depth (inches):0		ology Present? Yes	● No ○
(includes capillary fringe)	Yes No	Depth (inches): 0			
Describe Recorded Data (st	ream gauge, monito	oring well, aerial photos, previo	ous inspections), if avail	able:	
Damagula					
Remarks:					

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pla	iits		Sampling Point: w-50n19w7-c1
- (Plot size: 30	Absolute	Dominant Indicat	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species? Status	Number of Dominant Species
1		Ц	That are OBL, FACW, or FAC:3(A)
2		Ц	Total Number of Dominant
3	0		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, or FAC:100.0% (A/B)
7			Prevalence Index worksheet:
		Total Cover	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_	0BL speci es <u>100</u> x 1 = <u>100</u>
1		□ —	FACW species 0 x 2 = 0
2		□	FAC speciles x 3 =
3	0		FACU species $0 \times 4 = 0$
4	0		
5	0	Ц	UPL speci es x 5 =
6	0		Column Totals: 100 (A) 100 (B)
7	0		Prevalence Index = B/A = 1.000
		Total Cover	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5			Rapid Test for Hydrophytic Vegetation
1. Carex lacustris	30	✓ OBL	Dominance Test is > 50%
2. Calamagrostis canadensis	10	OBL	
3. Scirpus cyperinus	40	✓ OBL	Prevalence Index is ≤3.0 ¹
4. Typha x glauca		✓ 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			Indicators of hydric soil and wetland hydrology must
		<u> </u>	be present, unless disturbed or problematic.
8			Definitions of Vegetation Strata:
9		H —	-
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 hawkanania (ann maadh) planta ragardlana af
1		H —	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2		H —	_
3		H —	Woody vine - All woody vines greater than 3.28 ft in
4			height.
	0 =	Total Cover	
			Hydrophytic Vegetation
			Present? Yes • No •
Remarks: (Include photo numbers here or on a separate sh	eet.)		
	- -,		

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

Soil Sampling Point: w-50n19w7-c1

	iption: (De		the depth	needed to de				onfirm the	absence of indicators.)	
Depth Matrix (inches) Color (moist) %		0/0	Redox Features Color (moist) % Type 1			Loc2		Remarks		
0-4	10YR	2/1	100	COIOI (I	iloisty		Турс	Loc	Muck	Kemarks
4-9	10YR	3/2	90	10YR	4/4	10		M	Sandy Clay Loam	
-								-		
9-20	10YR	4/2	90	10YR	4/6	_ 10	C		Clay Loam	•
										·
1 Type: C-Con	contration D		n DM-Doo	lucod Matrix C	S_Covor	od or Coat	od Sand Cr	ains 21 occ	ation: PL=Pore Lining. M=N	
Hydric Soil I		-Depletic	JII. KIVI–KEC	iuceu iviati ix, c	3-00/6	eu or coat	eu sanu Gi	all is -Luca		
Histosol (Polyv	alue Belo	w Surface	(S8) (LRR	2		lematic Hydric Soils: 3
	pedon (A2)			MLRA	149B)	W Surrace	(SO) (ERRY	ν,		(LRR K, L, MLRA 149B)
Black Hist				Thin I	Dark Surf	face (S9) (LRR R, MLI	RA 149B)		ox (A16) (LRR K, L, R) or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)					Mineral (F1)	Dark Surface (S7)	
Stratified	Layers (A5)					Matrix (F2))			Surface (S8) (LRR K, L)
	Below Dark S		.11)		ted Matr	urface (F6)			Thin Dark Surface	
	k Surface (A			_		Surface (F	7)		☐ Iron-Manganese I	Masses (F12) (LRR K, L, R)
	ick Mineral (S					sions (F8)	.,			ain Soils (F19) (MLRA 149B)
	eyed Matrix (54)			•	, ,				6) (MLRA 144A, 145, 149B)
Sandy Redox (S5) Stripped Matrix (S6)					☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (TF12)					
	ace (S7) (LRI	R R, MLRA	A 149B)						Other (Explain in	
³ Indicators of	f hydronhytic	vegetatio	on and wetl:	and hydrology	must he	nresent ur	nless distur	ned or probl		remarks)
Restrictive L			and mou	a.i.a i.iya.o.ogy i	naor bo	prosonit, ai	noos alota.	504 01 p. 52.		
Type:	ayei (ii obs	ei veu ji								
Depth (incl	hes):								Hydric Soil Present?	Yes ● No ○
Remarks:										
Kemarks.										
ı										