WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	County: St. Louis	Sampli	ng Date: 14-Sep-17
Applicant/Owner: Enbridge			State: Mi	Sampling Point:	w-50n19w21-a1
Investigator(s): DPT		Se	ection, Township, Range:	s. 21 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 48.	.1044 Lon	9.: -92 44.7802	Datum: NAD 83
Soil Map Unit Name: F170A				NWI classification:	PSS/EMB
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, Soil	_		urbed? Are "Norma	Circumstances" present?	, (a) (
Are Vegetation , Soil	I, or Hydrol	ogy naturally problen		explain any answers in Re	
. .	_ , ,	e map showing samp	,	• •	•
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	:? Yes ⊙	No O	Within a Wedana.	•	
Remarks: (Explain alterna	tive procedures her	e or in a separate report.)			
• •					
Hydrology		_			_
Wetland Hydrology Indicate				Secondary Indicators (minir	
Primary Indicators (minimu	um of one requirea;			Surface Soil Cracks (B6	
✓ Surface Water (A1) ✓ High Water Table (A2)		Water-Stained Leaves (B9))	Drainage Patterns (B10))
✓ High water Table (A2) ✓ Saturation (A3)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	(00)
Water Marks (B1)		Marl Deposits (B15)		Dry Season Water Table	e (C2)
Sediment Deposits (B2)		Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C8) Saturation Visible on A	orial Imagany (CO)
Drift deposits (B3)		Oxidized Rhizospheres aloPresence of Reduced Iron		Stunted or Stressed Pla	
Algal Mat or Crust (B4)		Recent Iron Reduction in	• •	Geomorphic Position (I	, ,
Iron Deposits (B5)		Thin Muck Surface (C7)	Tilled Solls (Co)	Shallow Aquitard (D3)) <u>2</u>)
Inundation Visible on Aeria	al Imagery (B7)		-1	Microtopographic Relie	f (D4)
Sparsely Vegetated Concar		Other (Explain in Remarks	5)	FAC-neutral Test (D5)	(04)
	(),				
Field Observations:	Yes ● No ○	Depth (inches):	4		
Surface Water Present?	Yes • No O		6		
Water Table Present? Saturation Present?		Depth (inches):	0 Wetland Hyd	rology Present? Yes	● No ○
(includes capillary fringe)	Yes No	· · · · · · · · · · · · · · · · · · ·	0		
Describe Recorded Data (st	ream gauge, monito	oring well, aerial photos, prev	vious inspections), if avai	lable:	
Remarks:					
кеттагку:					

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pi	Sampling Point: w-50n19w21-a1				
(Dist. 20)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1	0			That are OBL, FACW, or FAC:6 (A)	
2	0			T. I.W. J. C. C. C. C.	
3	0			Total Number of Dominant Species Across All Strata: 6 (B)	
4					
5				Percent of dominant Species	
6				That Are OBL, FACW, or FAC: 100.0% (A/B)	
				Prevalence Index worksheet:	
7					
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:	
1 Alnus incana	5	✓	FACW	0BL speci es 100 x 1 = 100	
O. Cally natiologic	5	✓	FACW	FACW species 10 x 2 = 20	
	=			FAC speciles x 3 =0	
3				FACU species	
4				UPL speci es $0 \times 5 = 0$	
5				Column Total s:110 (A)120 (B)	
6				Column lotals: 110 (A) 120	
7	0			Prevalence Index = B/A = 1.091	
Und Charles (Plot size: 5	10=	= Total Cove	r	Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation	
1. Carex lacustris	30	✓	OBL	✓ Dominance Test is > 50%	
2. Glyceria canadensis	30	✓	OBL		
3. Typha x glauca	20	✓	OBL	Y Prevalence Index is ≤3.0 ¹	
4. Scirpus cyperinus		✓	OBL	Morphological Adaptations ¹ (Provide supporting	
5				data in Remarks or on a separate sheet)	
				Problematic Hydrophytic Vegetation ¹ (Explain)	
6				¹ Indicators of hydric soil and wetland hydrology must	
7				be present, unless disturbed or problematic.	
8	0			Definitions of Vegetation Strate.	
9				Definitions of Vegetation Strata:	
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
1	0			at breast height (DBH), regardless of height.	
2					
	_	= 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 3.26 it (1111) tall	
1	0			Herb - All herbaceous (non-woody) plants, regardless of	
2				size, and woody plants less than 3.28 ft tall.	
3					
				Woody vine - All woody vines greater than 3.28 ft in height.	
4				neight.	
	=	= Total Cove	r		
				Hydrophytic Vegetation	
				Present? Yes No	
Demonstra (Taralisala alta taranista area	h a a & `			1	
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-50n19w21-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)														
Depth	-	Matrix				dox Featu			_					
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc2	Texture		Ren	narks		
0-5	10YR	2/1	100						Muck					
5-12	10YR	3/2	90	10YR	4/4	10	С	PL	Sandy Clay Loam	า				
			-		-		-		-					
			_											
			-	-	-									
			-											
¹ Type: C=Cond	entration. D	=Depletio	n. RM=Red	duced Matrix,	CS=Cover	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lini	ing. M=M	atrix			
Hydric Soil I												ia Saila . 3		
Histosol (A				Poly	value Belo	w Surface ((S8) (LRR	R.	Indicators fo					
Histic Epip	•				Polyvalue Below Surface (S8) (LRR R, MLRA 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B)					
Black Histi				Thir	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)					Coast Prairie Redox (A16) (LRR K, L, R)				
	Sulfide (A4)			Loar	Loamy Mucky Mineral (F1) LRR K, L)					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Layers (A5)			Loar	my Gleyed	Matrix (F2)			☐ Dark Surface (S7) (LRR K, L, M) ☐ Polyvalue Below Surface (S8) (LRR K, L)					
	Below Dark S	Surface (A	11)	Dep	leted Matri	x (F3)								
	Surface (A			Redox Dark Surface (F6)							(S9) (LRR K,			
	ck Mineral (S			Dep	Depleted Dark Surface (F7)					Iron-Manganese Masses (F12) (LRR K, L, R)				
	yed Matrix (Redox Depressions (F8)				Piedmont Floodplain Soils (F19) (MLRA 1498)						
Sandy Red									Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Stripped M									Red Parent Material (F21)					
	ace (S7) (LR	R R, MLRA	149B)						✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)					
³ Indicators of	budronbutio	vozatatia	n and wat	and hudralam	, may at ba	aracant un	loog diatur	had ar prabl		кріант ін к	terriarks)			
			n and well	and nydrology	y must be p	present, un	iess distui	bed of probl	ematic.					
Restrictive La		erved):												
Type: <u>roc</u>									Hydric Soil Pro	ocont?	Yes ●	No O		
Depth (inch	nes): 12								Hydric Soil Pre	esentr	Yes 💌			
Remarks:														
I														
I														
I														