WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/	County: Carlton	Sam	npling Date: 15-Sep-17
Applicant/Owner: Enbridge			State: MI	Sampling Poin	t: w-48n17w8-a2
Investigator(s): SMR		S	ection, Township, Range:	s. 8 t. 48N	R. 17W
Landform (hillslope, terrace, etc.)	: Lowland		relief (concave, convex,		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	. K	Lat.: 46 39	9.5543 Lon	g.: -92 31.9218	Datum: NAD 83
Soil Map Unit Name: 533				NWI classification	on: PSS1B
Are climatic/hydrologic condition	s on the site ty	pical for this time of year?	Yes ● No ○	(If no, explain in Rem	arks.)
Are Vegetation \square , Soil \square	, or Hydrol		turbed? Are "Norma	l Circumstances" prese	
Are Vegetation, Soil	, or Hydrol			explain any answers in	
Summary of Findings -			,		•
Hydrophytic Vegetation Present	? Yes ●	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	Willilli a Welland:		
Remarks: (Explain alternative	erocedures hero	or in a senarate report.)			
Hydrology					
Wetland Hydrology Indicators:				_Secondary Indicators (n	ninimum of 2 required)
Primary Indicators (minimum o	f one required;	check all that apply)		Surface Soil Cracks	
Surface Water (A1)		Water-Stained Leaves (B	9)	Drainage Patterns (
✓ High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)		Marl Deposits (B15)		Dry Season Water	
Water Marks (B1)		Hydrogen Sulfide Odor (Crayfish Burrows (C	
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizospheres al			n Aerial Imagery (C9)
Algal Mat or Crust (B4)		Presence of Reduced Iro Recent Iron Reduction in	• •	Stunted or Stressed Geomorphic Positio	• •
Iron Deposits (B5)		Thin Muck Surface (C7)	Tilled Solis (Co)	Shallow Aquitard (D	• •
☐ Inundation Visible on Aerial Ima	gery (B7)	Other (Explain in Remark	ve)	☐ Microtopographic R	•
Sparsely Vegetated Concave Su	rface (B8)	Other (Explain in terms.)	(a)	FAC-neutral Test (D	
Field Observations:					
Surface Water Present? Yes	● No ○	Depth (inches):	3		
Water Table Present? Yes	● No ○	Depth (inches):	0		
Saturation Present? (includes capillary fringe) Yes	● No ○	Depth (inches):	Wetland Hyd	rology Present? Yo	es No
Describe Recorded Data (stream	gauge, monito	oring well, aerial photos, pre	evious inspections), if ava	ilable:	
Remarks:					

VEGETATION - Use scientific names of plants

(5)	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:4 (A)
2	0			T. LIN J. CD. C. L.
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				(-,
5				Percent of dominant Species
6		\Box		That Are OBL, FACW, or FAC: 100.0% (A/B)
7		\Box		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- I Otal Covel		0BL species 90 x 1 = 90
1. Alnus incana	60	✓	FACW	
2. Salix bebbiana		<u> </u>	FACW	FACW species 90 x 2 = 180
3	-			FAC speci es x 3 = 0
4				FACU species $0 \times 4 = 0$
5				UPL speci es $0 \times 5 = 0$
				Column Totals: <u>180</u> (A) <u>270</u> (B)
6	0			Dravelance Index D/A 1500
7				Prevalence Index = B/A = 1.500
Herb Stratum (Plot size: 5)	80=	= Total Cove	r	Hydrophytic Vegetation Indicators:
4. Oalamanaki aanadanak	40	✓	OBL	Rapid Test for Hydrophytic Vegetation
O. Timbe is element	-10			✓ Dominance Test is > 50%
2. Typha x glauca			OBL	✓ Prevalence Index is ≤3.0 ¹
3. Solidago gigantea	40	✓	FACW	☐ Morphological Adaptations ¹ (Provide supporting
4. Carex lacustris			OBL	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				Conline (obsub. Woody plants less than 2 in DDI and
		= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)				groater than oleo it (iii) taiii
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				height.
	0 =	= Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes No
				Tresent:
				<u> </u>
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-48n17w8-a2

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

Soil Sampling Point: w-48n17w8-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Rema	rks	
				-			-			
				-						
1										
		ı. KM=Redi	uced Matrix, CS=Covere	a or Coate	ed Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=M			
Hydric Soil I							Indicators for Proble	ematic Hydric S	Soils: ³	
Histosol (A	•		Polyvalue Belov MLRA 149B)	/ Surface	(S8) (LRR R		2 cm Muck (A10) (2 cm Muck (A10) (LRR K, L, MLRA 149B)		
_	edon (A2)		•	co (CO) (I	IDD D MID	A 140D)	Coast Prairie Redo			
Black Histi			Thin Dark Surface (S9) (LRR R, MLRA 149B)		A 149D)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
_	Sulfide (A4)		Loamy Mucky Mineral (F1) LRR K, L)Loamy Gleyed Matrix (F2)				Dark Surface (S7) (LRR K, L, M)			
	Layers (A5)		Depleted Matrix)		Polyvalue Below Su	K, L)		
	Below Dark Surface (A1	1)	Redox Dark Sur				Thin Dark Surface	(S9) (LRR K, L)		
	Surface (A12)		Depleted Dark Sur		7)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	ck Mineral (S1)				/)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
_	yed Matrix (S4)		Redox Depressi	OHS (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Red							Red Parent Materia	al (F21)		
Stripped N	Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Surface (S7) (LRR R, MLRA 149B)						✓ Other (Explain in Remarks)				
³ Indicators of	hydrophytic vegetation	and wetla	nd hydrology must be p	resent, un	less disturb	ed or proble				
	ayer (if observed):									
	iyei (ii observeu).									
Type:							Hydric Soil Present?	Yes ● I	No O	
Depth (inch	nes):						•			
Remarks:										
No digging or	n mainline, active bu	ried utilitie	es. soils assumed hyd	dric base	d on vege	tation and	hydrology.			