WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Carlton	Sampling Date: 16-Sep-17
Applicant/Owner: Enbridge	Stat	te: MN Sampling Point: u-48n17w8-b4
Investigator(s): DPT	Section, Township, R	zange: S. 8 T. 48N R. 17W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, con	
Subregion (LRR or MLRA): LRR K	Lat.: 46 39.1151	Long.: -92 30.8822
Soil Map Unit Name: 533		NWI classification: PSS/EM1B
Are climatic/hydrologic conditions on the site typ	oical for this time of year?	
Are Vegetation, Soil, or Hydrolo		Normal Circumstances" present? Yes No No
Are Vegetation , Soil , or Hydrolo		eded, explain any answers in Remarks.)
, _ , .	•	ations, transects, important features, etc
<u> </u>	No •	
· · ·	No. (•) Is the Sampled A	
	No • within a Wetland	d? 165 0 NO 0
Remarks: (Explain alternative procedures here		
Hydrology		
Wetland Hydrology Indicators:	ala a de all dia de accele A	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; of Surface Water (A1)		Surface Soil Cracks (B6)
High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No •		
	Depth (inches): 0	
Water Table Present? Yes No •	Depth (inches): 0	nd Hydrology Present? Yes O No 💿
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches):0	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections),	if available:
Remarks:		
Remarks:		

VEGETATION - Use scientific names of plants

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(Dist. 20)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species		
1	0			That are OBL, FACW, or FAC:(A)		
2	0			Total Number of Dominant		
3	0			Species Across All Strata:		
4	0					
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 0.0% (A/B)		
7				Prevalence Index worksheet:		
0 -T		Total Cove	r	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0		
1	0			FACW species 10 x 2 = 20		
2	0					
3				<u> </u>		
4				FACU species 90 x 4 = 360		
5				UPL speci es $\frac{0}{x}$ x 5 = $\frac{0}{x}$		
6.				Column Totals: 100 (A) 380 (B)		
7				Prevalence Index = B/A = 3.800		
		Total Cove				
Herb Stratum (Plot size: 5		. J.Cai COVE	•	Hydrophytic Vegetation Indicators:		
1. Solidago canadensis	40	✓	FACU	Rapid Test for Hydrophytic Vegetation		
0.00			FACW	☐ Dominance Test is > 50%		
			FACU	Prevalence Index is ≤3.0 ¹		
		<u>✓</u>		Morphological Adaptations ¹ (Provide supporting		
4. Tanacetum vulgare			FACU	data in Remarks or on a separate sheet)		
5. Phleum pratense			FACU	☐ 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:		
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1				at breast height (DBH), regardless of height.		
12				Configuration to Management less than 0's BBH 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				grouter than 6.25 it (iiii) taii		
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	r			
				Hydrophytic		
				Vegetation Present? Yes ○ No ●		
				Present? Yes V No V		
Remarks: (Include photo numbers here or on a separate s	heet.)					

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

Soil Sampling Point: u-48n17w8-b4

Depth	Matrix			dox Features		_	
(inches)	Color (moist)	% Co	lor (moist)	<u> Type</u> 1	Loc2	Texture	Remarks
						-	
						-	
		-					
					-		
1 Type: C=Con	centration D=Depletion	RM=Reduced Ma	trix CS=Covere	ed or Coated Sand Gra	ins 21 oca	ation: PL=Pore Lining. M=Ma	atrix
Hydric Soil		TWI-Reduced Wa	anx, 00=00vere	or of oblica band ord			
Histosol (Polyvalue Belov	v Surface (S8) (LRR R			matic Hydric Soils: 3
	pedon (A2)		MLRA 149B)	V Surface (SO) (ERR R	,		LRR K, L, MLRA 149B)
Black His			Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky N	Mineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed I			Dark Surface (S7)	
	Below Dark Surface (A11)		Depleted Matrix				ırface (S8) (LRR K, L)
_	k Surface (A12)		Redox Dark Sui	rface (F6)		Thin Dark Surface	
	uck Mineral (S1)		Depleted Dark	Surface (F7)			asses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depress				n Soils (F19) (MLRA 149B)
Sandy Re							(MLRA 144A, 145, 149B)
	Matrix (S6)					Red Parent Materia	
	face (S7) (LRR R, MLRA 14	IOP)				Very Shallow Dark	, ,
						Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation a	nd wetland hydro	logy must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	hes):					Hydric Soil Present?	Yes O No 💿
Remarks:	<u></u>						
	buried utilities. Soils a	soumed non by	idria basad ar	a violentation and hi	,drology,		
No digging,	burieu utilities. Solis a	ssumed non-ny	runc baseu oi	r vegetation and my	urology.		