WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Carlton		Sampling Da	ite: 15-Sep-17
Applicant/Owner: Enbridge		Sta	ate: MN Sam	pling Point:	u-48n17w8-b3
Investigator(s): SMR		Section, Township,	Range: S. 8	T. 48N	R. 17W
Landform (hillslope, terrace, etc.):	Nound	Local relief (concave, co	-	/ex SI	ope:° /°
Subregion (LRR or MLRA): LRR K	Lat.:	46 39.3755	Long.: -92 31.4	1205	Datum: NAD 83
Soil Map Unit Name: 355C				lassification: N/A	
Are climatic/hydrologic conditions on	the site typical for this time of	vear? Yes No	(If no, expl	ain in Remarks.)	
			'Normal Circumstan	,	res ● No ○
Summary of Findings - Atta		•	eeded, explain any a		•
	Yes No •				
7 7	Yes ○ No ●	Is the Sampled		No 🔘	
,	Yes O No •	within a Wetla	nd? fes ⊖ f	VO	
Wetland Hydrology Present? Remarks: (Explain alternative proce					
Hydrology Wetland Hydrology Indicators:			Secondary II	ndicators (minimum c	of 2 required)
Primary Indicators (minimum of one	required; check all that apply)			Soil Cracks (B6)	r z roganou)
Surface Water (A1)	Water-Stained Le	aves (B9)		e Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B	13)	Moss Tr	im Lines (B16)	
Saturation (A3)	Marl Deposits (B1			son Water Table (C2)	
Water Marks (B1)	☐ Hydrogen Sulfide			Burrows (C8)	(00)
Sediment Deposits (B2) Drift deposits (B3)		heres along Living Roots (C3)	´	on Visible on Aerial In or Stressed Plants (E	0 3
Algal Mat or Crust (B4)	Presence of Redu	iction in Tilled Soils (C6)		phic Position (D2)) i)
Iron Deposits (B5)	☐ Thin Muck Surfac	` ,		Aquitard (D3)	
Inundation Visible on Aerial Imagery (• ,	Microto	pographic Relief (D4)	
Sparsely Vegetated Concave Surface	(B8)		FAC-neu	utral Test (D5)	
Field Observations:					
Surface Water Present? Yes	No Depth (inches):	0			
Water Table Present? Yes	No Depth (inches):	0		v O	No •
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):		and Hydrology Prese	nt? Yes 🔾	NO S
Describe Recorded Data (stream gauge	ge, monitoring well, aerial phot	os, previous inspections)	, if available:		
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:1 (A)
2				
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Species Across Air Strata.
5				Percent of dominant Species
				That Are OBL, FACW, or FAC: 33.3% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	:	= Total Cove	r	Total % Cover of: Multiply by:
1	0			0BL speci es x 1 =0
				FACW species <u>30</u> x 2 = <u>60</u>
2				FAC speci es
3				FACU species
4	-			UPL species x 5 =0
5				Column Total s: 100 (A) 340 (B)
6				
7	0			Prevalence Index = B/A = 3.400
Herb Stratum (Plot size: 5)	0 :	= Total Cove	r	Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Tanacetum vulgare	40	✓	FACU	Dominance Test is > 50%
2. Poa pratensis	30	✓	FACU	Prevalence Index is ≤3.0 ¹
3. Solidago gigantea	30	✓	FACW	
4	0			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8.				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at breast height (DDH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: _30)	100 :	= Total Cove	•	greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
2				
3	0			Woody vine - All woody vines greater than 3.28 ft in
4				height.
	:	= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate she	not \			
Remarks. (Include photo humbers here of on a separate she	:e.,)			

Sampling Point: u-48n17w8-b3

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

Soil Sampling Point: u-48n17w8-b3

inches) Color (moist)	Redox Features	
		1 Loc ² Texture Remarks
		<u> </u>
: C=Concentration. D=Depletion	n. RM=Reduced Matrix, CS=Covered or Coated Sand G	Grains ² Location: PL=Pore Lining. M=Matrix
ic Soil Indicators:		Indicators for Problematic Hydric Soils: 3
Histosol (A1)	Polyvalue Below Surface (S8) (LRR	P
listic Epipedon (A2)	MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Histic (A3)	☐ Thin Dark Surface (S9) (LRR R, ML	LRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) LRR K, I	L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, L, M)
Depleted Below Dark Surface (A1	Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)
hick Dark Surface (A12)	Redox Dark Surface (F6)	☐ Thin Dark Surface (S9) (LRR K, L)
Sandy Muck Mineral (S1)	Depleted Dark Surface (F7)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)
	Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	•	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)		Red Parent Material (F21)
Stripped Matrix (S6)	4.400)	
Dark Surface (S7) (LRR R, MLRA	149B)	Other (Explain in Remarks)
(a., a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.a.	n and wetland hydrology must be present, unless distu	rbed or problematic.
	Tana Wellana nyarology mast be present, unless dista	
dicators of hydrophytic vegetation	Tana wenana nyarology mast be present, unless alsta	
dicators of hydrophytic vegetation	Tana wettana nyarotogy mast be present, umess aista	
licators of hydrophytic vegetation rictive Layer (if observed): ype:	Tana wettana nyarotogy mast be present, umess aista	Hydric Soil Present? Yes No •
dicators of hydrophytic vegetation rictive Layer (if observed): ype: bepth (inches):	Tana wettana nyarotogy mast be present, umess asta	Hydric Soil Present? Yes No •
dicators of hydrophytic vegetation rictive Layer (if observed): Type: Depth (inches):		
dicators of hydrophytic vegetation rictive Layer (if observed): Type: Depth (inches):	uried utilities. soils assumed non-hydric based o	
dicators of hydrophytic vegetation rictive Layer (if observed): type: tepth (inches):		
dicators of hydrophytic vegetation rictive Layer (if observed): type: tepth (inches):		
rictive Layer (if observed): ype: epth (inches):		
dicators of hydrophytic vegetation rictive Layer (if observed): Type: Depth (inches):		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches):		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): Inarks:		
dicators of hydrophytic vegetation crictive Layer (if observed): Type: Depth (inches): Depth size of hydrophytic vegetation contact the		
dicators of hydrophytic vegetation crictive Layer (if observed): Type: Depth (inches): Depth state of hydrophytic vegetation contact the contact th		
dicators of hydrophytic vegetation crictive Layer (if observed): Type: Depth (inches): Depth size of hydrophytic vegetation contact the		
dicators of hydrophytic vegetation rictive Layer (if observed): Type: Depth (inches):		
dicators of hydrophytic vegetation rictive Layer (if observed): Type: Depth (inches):		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): Inarks:		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): marks:		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): Inarks:		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): marks:		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): Inarks:		
dicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): Inarks:		
dicators of hydrophytic vegetation crictive Layer (if observed): Type: Depth (inches): Depth state of hydrophytic vegetation contact the contact th		