WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Main L3R ESC			City/County:	Carlton		Sampling	Date: 19-Sep-17
Applicant/Owner: Enbridge				State: MN	Sampl	ing Point:	w-48n16w29-yy1
Investigator(s): DPT			Section, To	wnship, Range:	S. 29	T. 48N	R. 16W
Landform (hillslope, terrace, etc.):	Lowland	L	•	oncave, convex, n		ve	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K			6 36.5606	Long	-92 23.17	 21	Datum: NAD 83
Soil Map Unit Name: 188						ssification:	
	the site tu	-ical for this time of ve	2 Yes	s • No O	— (If no, explain	-	
Are climatic/hydrologic conditions of \square , Soil \square	on the site ty or Hydrolo,				Circumstance		.) Yes ● No ○
		· –	•			•	
Are Vegetation, Soil	or Hydrolo,			,	explain any an		•
Summary of Findings - A			ampling po	oint location	is, transec	ts, impor	tant reatures, etc
Hydrophytic Vegetation Present?	Yes 💿	No O	Ts the	Sampled Area			
Hydric Soil Present?	Yes 💿	No O		a Wetland?	Yes 💿 No	\circ	
Wetland Hydrology Present?	Yes	No O					
Remarks: (Explain alternative pro	cedures here	or in a separate report	t.)				
No digging, potential buried utiliti	es, adjacent	to road.					
Undralagy							
Hydrology							
Wetland Hydrology Indicators:							um of 2 required)
Primary Indicators (minimum of o	ne required;	check all that apply)				oil Cracks (B6)	
Surface Water (A1)		Water-Stained Leave	es (B9)			Patterns (B10)	
☐ High Water Table (A2)		Aquatic Fauna (B13)				Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				n Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Oc				urrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospher		Roots (C3)			ial Imagery (C9)
Drift deposits (B3)		Presence of Reduced				r Stressed Plan	• •
Algal Mat or Crust (B4)		Recent Iron Reduction	ion in Tilled Soil	s (C6)	✓ Geomorph	nic Position (D2)
☐ Iron Deposits (B5)		Thin Muck Surface ((C7)			quitard (D3)	
Inundation Visible on Aerial Image	ry (B7)	Other (Explain in Re	emarks)			graphic Relief ((D4)
Sparsely Vegetated Concave Surfa	ce (B8)				✓ FAC-neutr	al Test (D5)	
Field Observations:							
Surface Water Present? Yes	O No ●	Depth (inches):	0				
Water Table Present? Yes	No ●	Depth (inches): _	0			_	
Saturation Present?		Depth (inches):	0	Wetland Hydr	ology Present	? Yes	No O
(Includes capillally Inlige)				noctions) if avail	lablo		
Describe Recorded Data (stream g	auge, monito	aring well, aerial priotos	s, previous iris	pections), ii avaii	able:		
Remarks:							
ivernarks.							

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pic	Sampling Point: w-48n16w29-yy1			
(0) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:3(A)
2				Total Number of Dominant
3				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:
(Dist size 15	0 =	Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es
1				FACW species x 2 =
2				FAC speciles 0 x 3 = 0
3	0			FACU speciles
4	0			
5	0			UPL speci es $0 \times 5 = 0$
6	0			Column Totals: <u>100</u> (A) <u>100</u> (B)
7	0			Prevalence Index = B/A =1.000_
		Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				✓ Rapid Test for Hydrophytic Vegetation
1. Carex lacustris	30	✓	OBL	
2. Carex flava	40	✓	OBL	
3. Scirpus cyperinus	30	✓	OBL	У Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Problematic Hydrophytic Vegetation - (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
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 Cove	r	greater than 3.28 ft (1m) tall
	0			Harb All barbassaus (non woody) plants, regardless of
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
		= Total Cove	r	
				Hodrowky dia
				Hydrophytic Vegetation
				Present? Yes No O
Remarks: (Include photo numbers here or on a separate sl	neet.)			
·				

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

Soil Sampling Point: w-48n16w29-yy1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix Redox Features									
(inches)	Color (moist)	<u>%</u>	Color (moist)	%_	Type 1	Loc ²	Texture	Remarks	
			-				-		
									
¹ Type: C=Con	centration. D=Depletion	. RM=Reduc	ed Matrix, CS=Covere	ed or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Ma	atrix	
Hydric Soil			<u> </u>						
Histosol (Dobarding Del	u Cumfa '	(0) (1 00 0		Indicators for Proble	matic Hydric Soils: 3	
	•		Polyvalue Belov MLRA 149B)	v Surrace ((38) (LKK K	1	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	pedon (A2)		☐ Thin Dark Surfa	nce (SQ) (I	RRR MIR	Δ 149R)	Coast Prairie Redox	(A16) (LRR K, L, R)	
Black His						A 1470)	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)	
☐ Hydroger	Sulfide (A4)		Loamy Mucky N				Dark Surface (S7)		
Stratified	Layers (A5)		Loamy Gleyed					ırface (S8) (LRR K, L)	
Depleted	Below Dark Surface (A1	1)	Depleted Matrix				Thin Dark Surface		
☐ Thick Dar	k Surface (A12)		Redox Dark Su	face (F6)					
	uck Mineral (S1)		Depleted Dark	Surface (F	7)			asses (F12) (LRR K, L, R)	
	eyed Matrix (S4)		Redox Depress	ions (F8)				n Soils (F19) (MLRA 149B)	
			·				Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)	
Sandy Re							Red Parent Materia	l (F21)	
	Matrix (S6)						Very Shallow Dark	Surface (TF12)	
☐ Dark Surf	ace (S7) (LRR R, MLRA	149B)					✓ Other (Explain in R	emarks)	
³ Indicators o	f hydrophytic vegetation	and wetland	l hydrology must be r	resent un	less disturb	ed or proble		,	
		and wettane	Thydrology mast be p	resent, un	icss distarb	cu or probic	Smalle.		
Restrictive L	ayer (if observed):								
Type:									
Depth (inc	hes):						Hydric Soil Present?	Yes ● No ○	
Remarks:									
No digging, p	ootential buried utilitie	es. Soils as	sumed hydric base	d on veg	etation an	d hydrolog	gy.		