v	VETLAND DETEI	RMINATION D	ATA FORM - North Centra	l and Northeast Region			
SPP Project/Site:	Ci	Clearwater City/County:		Sampling	2015-07-07 Sampling Date:		
Enbridge Applicant/Owner:			Minnesota State:	Sampling	CLC5005f1W Point:		
ACM Investigator(s):	/LEB		Section, Township, Range:				
	depression			Conca convex, none):	0-2 Slope (%):		
Subregion (LRR or MLRA):		Latitu			Minnesota State Datum:		
718C					PEMF		
Soil Map Unit Name:				NWI Class	ification: Yes		
Are climatic/hydrologic conditions				-			
Are Vegetation, Soil Are Vegetation, Soil, o							
Are vegetation, Soil, 0	r Hydrology	_ naturally prop	iematicr (il needed, explain	any answers in Remarks)			
SUMMARY OF FINDINGS - Atta	ch site map show	/ing sampling p	oint locations, transects, imp	ortant features, etc.			
Hydrophytic Vegetation Present?		Yes	Is the Sampled Area				
Hydric Soil Present?		Yes	within a Wetland?		Yes		
Wetland Hydrology Present?		Yes	If yes, optional Wetlar	nd Site ID:			
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum of o	ne is required; ch	eck all that app	<u>v)</u>	Surface Soil	Cracks (B6)		
Surface Water (A1)	-	Water-Staine	ed Leaves (B9)	no Drainage Patterns (B10)			
High Water Table (A2)	_	Aquatic Faur	a (B13)	Moss Trim Lines (B16)			
Saturation (A3)	-	Marl Deposit		Dry-Season Water Table (C2)			
Water Marks (B1)	-		lfide Odor (C1)	Crayfish Burrows (C8)			
			zospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
			Reduced Iron (C4)	Stunted/Stressed Plants (D1) <u>yes</u> Geomorphic Position (D2)			
Algal Mat or Crust (B4) Iron Deposits (B5)	_		Reduction in Tilled Soils (C6)				
		Thin Muck Su		Shallow Aqui	aphic Relief (D4)		
Sparsely Vegetated Concave Surf	Inundation Visible on Aerial Imagery (B7) Other (Exp			<u>yes</u> FAC-Neutral			
Field Observations:							
Surface Water Present?	No	Depth (i	nches)				
Water Table Present?	No		nches)				
Saturation Present?	No		nches)	Wetland Hydrology Pre	sent? Yes		
(includes capillary fringe)							
Describe Recorded Data (stream g	auge, monitoring	well, aerial pho	otos, previous inspections), if	available:			
Remarks:							
	sion and passos t	bo EAC Noutral	tost				
The wetland is located in a depres	ssion and passes t	.ne FAC-Neutral	iesi.				

VEGETATION - Use scientific names of plants.

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	Se scientific fiames of	•			
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot Size:) % Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
2					
3					Species Across All Strata: (B)
4					Percent of Dominant Species
					100
5					That Are OBL, FACW, or FAC:(A/B)
6					Prevalence Index worksheet:
7				_	Total % Cover of: Multiply by:
		0	= Total Cover		OBL species $5.00 \times 1 = 5$
Carling (Charles Ctratum					
	n (Plot Size:				
1					FACU species 0.00 x 3 0
2					UPL species 0.00 x 4 0
3					Column Totals(A)(B)
4					Prevalence Index = $B/A = \frac{1.95}{1.95}$
5					Hydrophytic Vegetation Indicators:
-					
6					<u>Yes</u> 1 - Rapid Test for Hydrophytic Vegetation
7					<u>yes</u> 2 - Dominance Test is > 50%
		0	= Total Cover		<u>Yes</u> 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Siz	ze: <u>5 ft</u>)				4 - Morphological Adaptations ¹ (Provide
1. Phalaris arundinace	ea	95.00	Yes	FACW	supporting data in Remarks or on a separate sheet)
2. Typha angustifolia		5.00	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3					¹ Indicators of hydric soil and wetland hydrology must be present, unless
4					disturbed or problematic.
5					Definitions of Vegetation Strata:
6					_
7					Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8					height (DBH), regardless of height.
9					
9					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10					
11					Herb - All herbaeceous (non-woody) plants, regardless of size, and
12					woody plants less than 3.28 ft tall.
		100	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
March Mine Ctratum	(D) (Circi)				
	(Plot Size:)				
1					_
2					Hydrophytic Vesetation
3					Vegetation Present?
4.					
		0	=Total Cover		7
	ioto numbers here or on a ser				
The vegetation is dom	inated by reed canary grass	with narrow-leaf cattail in low	ver spots closer to the	he pond.	

SOIL

Sampling Point: CLC5005f1...

		depth ne	eded to document the			nfirm th	e absence of ir	idicators.)
Depth	Matrix Redox Features		2					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 2 1	100					sicl	
5-24	10YR 5 1	80	10YR 5 8	_ 20	<u>C</u>	<u>M</u>	LC	loamy clay
				_				
			-	·		·		
				·		·		
				·		·		-
				·		·		
¹ Type: C=Concen	tration, D=Depletion, RM=	Reduced M	latrix, MS=Masked Sand Gra	ains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indica	itors:						Indicators fo	r Problematic Hydric Soil ³ :
Histosol (A	41)		Polyvalue Below 149B)	Surface (S8) (LRR R	R, MLRA	🗌 2 cm M	uck (A10) (LRR K, L, MLRA 149B)
Histic Epip	pedon (A2)		Thin Dark Surface	e (S9) (LR	R R, MLR	A 149B)	Coast P	rairie Redox (A16)(LRR K, L, R)
Black Histi	ic (A3)		Loamy Mucky Mi	ineral (F1) (LRR K. L	.)	🗌 5 cm M	ucky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed M				_	irface (S7) (LRR K, M)
	Layers (A5)		Depleted Matrix				_	ue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A11)		Redox Dark Surfa					rk Surface (S9) (LRR K, L)
	k Surface (A12)		Depleted Dark Su		7)			aganese Masses (F12) (LRR K, L, R)
	icky Mineral (S1)		Redox Depression		,		_	nt Floodplain Soils (F19) (MLRA 149B)
	yed Matrix (S4)			15 (10)				podic (TA6) (MLRA 144A, 145, 149B)
Sandy Sie								rent Material (F21)
	Matrix (S6)						_	allow Dark Surface (TF12)
Dark Surfa	ace (S7) (LRR R, MLRA 149	B)			<u> </u>		Other (explain in remarks)
Restrictive Layer	(if observed):	L						
Туре:			H	Hydric Soil Present	<u>Yes</u>			
	nches):							
Remarks:					I			
The soils are silty	clay loam over depleted l	oamy clay a	ind meet hydric soil indicate	ors A11 a	nd F3.			