## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Clearwate ity/County:		2015-07-08 Sampling Date:			
Enbridge Applicant/Owner:			Minnesota State:	CL006e1U Sampling Point:			
	И/LEB	Sec	ction, Township, Range:				
Landform (hillslope, terrace, etc.	Rise ):	<del></del>		Conve convex, none):			
Subregion (LRR or MLRA):		47 Latitude:	7.7151815360 Lo	-95.54613718 ongitude: Dat	Minnesota State		
Soil Map Unit Name:					on:		
Are climatic/hydrologic condition	is on the site typic	cal for this time of year	r? (if no, explain in Rema	arks):	Yes		
No No No Are Vegetation, Soil		•					
No No No Are Vegetation, Soil,	No						
SUMMARY OF FINDINGS - Att	ach site map sho	wing sampling point lo	ocations, transects, imp	ortant features, etc.			
Hydrophytic Vegetation Present?	No		Is the Sampled Area				
Hydric Soil Present?		Yes	No within a Wetland?				
		No	If yes, optional Wetland Site ID:				
Wetland Hydrology Present?  Remarks: (Explain alternative pro	ocedures here or	in a senarate report )	1 ' ' '				
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)		
Primary Indicators (minimum of	one is required: c	neck all that annly)		Surface Soil Cracks			
Surface Water (A1)	one is required, ei	Water-Stained Leav	res (B9)	Drainage Patterns (			
High Water Table (A2)	• •				Moss Trim Lines (B16)		
Saturation (A3)				Dry-Season Water Table (C2)			
Water Marks (B1)	•			Crayfish Burrows (C8)			
Sediment Deposits (B2)			res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	<del>-</del>	Presence of Reduce		Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)	_		on in Tilled Soils (C6)		Geomorphic Position (D2)		
Iron Deposits (B5)	_	Thin Muck Surface (		<del></del> ·	Shallow Aquitard (D3)		
	- agery (R7)	Other (Explain in Re			Microtopographic Relief (D4)		
Inundation Visible on Aerial Imagery (B7) Other (Expla Sparsely Vegetated Concave Surface (B8)		Other (Explain in Ne	indikay		FAC-Neutral Test (D5)		
Field Observations:	Trace (Bo)				·1		
Surface Water Present?	No	Depth (inches	)				
Water Table Present?	No	Depth (inches					
Saturation Present?	No_	Depth (inches	· ——	Wetland Hydrology Present?	No		
(includes capillary fringe)			,	, , , , , , , , , , , , , , , , , , , ,	<del></del>		
Describe Recorded Data (stream	gauge, monitorin	g well, aerial photos, p	previous inspections), if a	available:			
Remarks:							
	ngy were observe	4					
No indicators of wetland hydrolo	igy were observed	u.					
i							

<b>VEGETATION</b> - Use scientific names of plants.				Sampling Point: CL006e1U
	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
				That Are OBL, FACW, or FAC: $\frac{0}{}$ (A)
				Total Number of Dominant
				2 Species Agrees All Strates (D)
				Species Across All Strata: (B)
				Percent of Dominant Species 0
				That Are OBL, FACW, or FAC:(A/B)
		_		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	0	_ = Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>
apling/Shrub Stratum (Plot Size:)				FACW species $0.00 \times 2$
		_		FACU species
		_	_	UPL species <u>15.00</u> x 4 <u>75</u>
				Column Totals (A) (B)
	_	_	_	Prevalence Index = B/A = $\frac{4.1578947}{1.1578947}$
	_	_	_	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
	_		_	no 2 - Dominance Test is > 50%
	0	_ = Total Cover		<u>no</u> 3 - Prevalence Index is $\leq 3.0^1$
erb Stratum (Plot Size: 5 ft )				4 - Morphological Adaptations 1 (Provide
Trifolium pratense	40.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
Poa pratensis	35.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Bromus inermis	15.00	No	UPL	
Phleum pratense	5.00	No	FACU	indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
	_			_
	_			Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
				height (DBH), regardless of height.
				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
h				or equal to 3.28 ft (1 m) tall.
	-		_	<ul> <li>Herb - All herbaeceous (non-woody) plants, regardless of size, and</li> </ul>
2.			_	woody plants less than 3.28 ft tall.
	95	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
oody Vine Stratum (Plot Size:)		_		
,				
		_		Vegetation
				Present?
·	0	=Total Cover		_
	ent )			_ <b>1</b>
<b>amarks:</b> (include nhoto numbers here or on a senarate she	,	atly been haved		
	clover and has recen			
Remarks: (include photo numbers here or on a separate she The vegetation is dominated by Kentucky bluegrass and red	clover and has recer	itiy been nayed.		
	clover and has recer	itty been nayeu.		
	clover and has recer	iny been nayeu.		
	clover and has recer	itiy been nayeu.		

SOIL								Sampling Point: CL006e1U
	•	depth n				nfirm th	e absence of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Redox F Color (moist)	eature:	S Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	10YR 2 1	100					sil	
13-24	10YR 6 2	75	10YR 6 8	25	С	М	sicl	
	_		-					
	_							
	_							
				·				
	_		-					
	_		_	·				
						-		
<sup>1</sup> Type: C=Conce	entration, D=Depletion, RM=	Reduced	– Matrix, MS=Masked Sand Gra	ains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix
Hydric Soil Indi	cators:						Indicators for Problematic F	lydric Soil <sup>3</sup> :
☐ Histosol	(A1)		Polyvalue Below 149B)	Surface (	S8) <b>(LRR R</b>	, MLRA	2 cm Muck (A10) (LRR	K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surface	(S9) <b>(LR</b>	R R, MLRA	149B)	Coast Prairie Redox (A1	16)(LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucky Mi	neral (F1	) (LRR K, L	)	5 cm Mucky Peat or Pe	at (S3) ( <b>LRR K, L, R</b> )
☐ Hydroge	en Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)			Dark Surface (S7) (LRR	K, M)
Stratifie	d Layers (A5)	.ayers (A5) Depleted Matrix (F3)			Polyvalue Below Surface (S8) (LRR K, L)			
☐ Deplete	Depleted Below Dark Surface (A11) Redox Dark Surface (F6)				Thin Dark Surface (S9) (LRR K, L)			
<b>✓</b> Thick Da	ark Surface (A12)		Depleted Dark Su	rface (F7	<b>'</b> )		Iron-Maganese Masses	(F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depression	ns (F8)			Piedmont Floodplain Sc	ils (F19) <b>(MLRA 149B)</b>
Sandy G	ileyed Matrix (S4)						Mesic Spodic (TA6) (ML	RA 144A, 145, 149B)
Sandy R	edox (S5)						Red Parent Material (F.	21)
Stripped	d Matrix (S6)						Very Shallow Dark Surf	ace (TF12)
Dark Sur	rface (S7) <b>(LRR R, MLRA 149</b>	3)					Other (explain in remai	rks)
Restrictive Laye	er (if observed):							
Туре:						ı	Hydric Soil Present? Yes	
Depth	(inches):				1		-	

The soils are silt loam over depleted silty clay loam and meet hydric soil indicator A12. Relict hydric soils are present, but current land use and a nearby swale have converted the area to upland.

Remarks: