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

SPP Project/Site:	C	Clearwate	er	2015-07-09 Sampling Date:	
Applicant/Owner: Enbridge			Minnesota State:	CL005h2W Sampling Point:	
ACM Investigator(s):	I/LEB	Sec	tion, Township, Range:		
Landform (hillslope, terrace, etc.):	denression		Local Relief (concave,	Conca convex, none): Slope (9	0-2 %): nesota State
Subregion (LRR or MLRA):		Latitude:	7.7168268198 Lo	-95.55905537 Min ongitude: Datum:	
Soil Map Unit Name:				NWI Classification:	
Are climatic/hydrologic conditions	s on the site typic	cal for this time of year	? (if no. explain in Rem	Yes	
. , .		•	• • •	·	
Are Vegetation No No No No		significantly distur	rbed? Are "Normal Circ	umstances" present?	
Are Vegetation, Soil, c	No or Hydrology	_ naturally problemat	ic? (If needed, explain	any answers in Remarks)	
SUMMARY OF FINDINGS - Atta	ach site map sho		ocations, transects, imp	oortant features, etc.	
Hydrophytic Vegetation Present?		Yes	Is the Sampled Area		
		Yes		Yes	
Hydric Soil Present?		within a Wetland?			
Wetland Hydrology Present?			If yes, optional Wetlar	nd Site ID:	
Remarks: (Explain alternative pro				depression. The vegetation is dominated b	
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indicators (minimum o	f two required)
Primary Indicators (minimum of o	ne is required; cl	neck all that apply)		Surface Soil Cracks (B6)	
		Water-Stained Leav	es (B9)	Drainage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)	)	Moss Trim Lines (B16)	
		Marl Deposits (B15)		Dry-Season Water Table (C2)	
Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4) Rec		Recent Iron Reducti	on in Tilled Soils (C6)	yes Geomorphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface (	(C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Oth		Other (Explain in Re	emarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Sur	face (B8)			yes FAC-Neutral Test (D5)	
Field Observations:					
Surface Water Present?	<u>No</u>	Depth (inches)			
Water Table Present?	<u>No</u>	Depth (inches)	)		
Saturation Present?	<u>No</u>	Depth (inches)	)	Wetland Hydrology Present?	<u>Yes</u>
(includes capillary fringe)					
Describe Recorded Data (stream g	gauge, monitorin	g well, aerial photos, p	revious inspections), if	available:	
Remarks:					
The wetland is in a roadside ditch	depression and	passes the FAC-neutra	ll test.		

				Sampling Point: CL005h2W
	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
·	- <u></u>	_		That Are OBL, FACW, or FAC: 1(A)
			_	Total Number of Dominant
				1
		_		Species Across All Strata:(B)
			_	Percent of Dominant Species  100
	·		_	That Are OBL, FACW, or FAC:(A/B)
	- <u>-</u>		_	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 <u>90.00</u> x 2 <u>180</u>
·			_	FACU species <u>0.00</u> x 3 <u>48</u>
·			_	UPL species <u>0.00</u> x 4 <u>0</u>
		_	_	Column Totals <u>102</u> (A) <u>228</u> (B)
			_	Prevalence Index = B/A = $\frac{2.2352941}{1.000}$
				Hydrophytic Vegetation Indicators:
				yes 1 - Rapid Test for Hydrophytic Vegetation
				yes 2 - Dominance Test is > 50%
	0	= Total Cover		yes 3 - Prevalence Index is $\leq 3.0^1$
erb Stratum (Plot Size: 5 ft )		_		4 - Morphological Adaptations (Provide
Phalaris arundinacea	85.00	Yes	FACW	supporting data in Remarks or on a separate sheet)
Solidago canadensis	10.00	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Poa palustris	5.00	No	FACW	
Cirsium arvense	2.00	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
			_	or equal to 3.28 ft (1 m) tall.
0				- Itarib. All boshoosooya (non yaqada) planta yaqaydlasa of sino ond
1		<u> </u>		<ul> <li>Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
2	103		_	- <b> </b>
	102	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Voody Vine Stratum (Plot Size:)				
•	_	_	_	—
			_	Hydrophytic Vegetation
				Present?
		_	_	-
	0	=Total Cover		1
temarks: (include photo numbers here or on a separate shere	et.)			

Sampling Point: CL005h2W SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type<sup>1</sup> Loc<sup>2</sup> (inches) Color (moist) % Color (moist) Texture Remarks 0-8 10YR 2 1 100 sicl 8-14 10YR 2 1 98 10YR 3 4 2 С Μ sicl 10YR 4 6 14-24 10YR 3 1 90 10 С M scl fine sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil<sup>3</sup>: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, MLRA 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Dark Surface (S7) (LRR K, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Iron-Maganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Sandy Redox (S5) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Other (explain in remarks) Dark Surface (S7) (LRR R, MLRA 149B)

Hydric Soil Present? Yes

Restrictive Layer (if observed):

Depth (inches):

The soils are silty clay loam over fine sandy clay loam, meeting hydric soil indicator F6.

Type:

Remarks: