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

SPP Project/Site:	City/County:	Clearwater City/County:		Sampling Date:	2015-07-08	
Enbridge Applicant/Owner:			Minnesota		CL006g1U	
ACM/LEB		31a	te:	Sampling Point:		
Investigator(s):		Section,	, Township, Range:			
Landform (hillslope, terrace, etc.):		Loc	al Relief (concave, cor	Conve nvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA):	La	47.716 atitude:	58556536 Long	-95.54739715	Minnesota State	
Soil Map Unit Name:						
					Yes	
Are climatic/hydrologic conditions on th	••	, ,	•	•		
Are Vegetation, Soil, or Hy	drology significa	antly disturbed	? Are "Normal Circum	nstances" present?		
Are Vegetation $\overset{No}{\underline{\hspace{1cm}}}$ , Soil $\overset{No}{\underline{\hspace{1cm}}}$ , or Hyd	No rology naturally p	problematic?	(If needed, explain an	y answers in Remarks)		
CUMMANDY OF FINIDINGS I						
SUMMARY OF FINDINGS - Attach site	e map showing samplii No	ng point locati	ons, transects, impor	tant features, etc.		
Hydrophytic Vegetation Present?	<del></del>	ls t	he Sampled Area			
Hydric Soil Present?	No	wit	:hin a Wetland?	No		
Trydic Son Fresent:	No		es, optional Wetland			
Wetland Hydrology Present?	<del></del>		es, optional wetiand .			
Remarks: (Explain alternative procedure						
The upland is a hay field dominated by	Kentucky bluegrass an	а анана.				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (min	nimum of two required)	
Primary Indicators (minimum of one is r	required: check all that	annly)		Surface Soil Cracks (	R6)	
Surface Water (A1)		Stained Leaves (BS	9)	Drainage Patterns (B		
High Water Table (A2)		: Fauna (B13)	-,	Moss Trim Lines (B10	·	
Saturation (A3)		eposits (B15)		Dry-Season Water Ta		
Water Marks (B1)			C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)			Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)			n (C4)	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent	Iron Reduction in	Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Μι	uck Surface (C7)		Shallow Aquitard (D3	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7	Inundation Visible on Aerial Imagery (B7) Other (Explain		s)	Microtopographic Re	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8	3)			FAC-Neutral Test (D5		
Field Observations:						
Surface Water Present?	No Dep	th (inches)				
Water Table Present?	No Dep	th (inches)				
Saturation Present?	No Dep	th (inches)		Wetland Hydrology Present?	<u>No</u>	
(includes capillary fringe)						
Describe Recorded Data (stream gauge,	monitoring well, aerial	l photos, previo	ous inspections), if ava	ailable:		
Remarks:						
No indicators of wetland hydrology wer	re observed.					

**VEGETATION** - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0(A)
2.				Total Number of Dominant
	-			1
3	•			Species Across All Strata: (B)
4				Percent of Dominant Species
5.				0 That Are OBL, FACW, or FAC:(A/B)
6.				Prevalence Index worksheet:
7.	•			Total % Cover of: Multiply by:
/·	0	- Total Cover	_	OBL species 0.00 x 1 0
Capling/Chrub Stratum / Dlat Ciza	<u>-</u>	_ = 10tal covel		FACW species 0.00 x 2 0
Sapling/Shrub Stratum (Plot Size:)				X2
1		_	_	X 3
2	•			
3	•			
4	·			Prevalence Index = B/A = 4.25
5	•			Hydrophytic Vegetation Indicators:
6		<u> </u>	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
7	·	_	_	no 2 - Dominance Test is > 50%
	0	_ = Total Cover		$\frac{\text{no}}{}$ 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot Size: 5 ft )				4 - Morphological Adaptations (Provide
1. Poa pratensis	50.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Medicago sativa	15.00	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Trifolium pratense	15.00	<u>No</u>	FACU	Indicators of hydric soil and wetland hydrology must be present, unless
4. Taraxacum officinale	10.00	<u>No</u>	FACU	disturbed or problematic.
5. Bromus inermis	10.00	No	UPL	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	<u> </u>			Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
10				or equal to 3.28 ft (1 m) tall.
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12.				woody plants less than 3.28 ft tall.
12.	100	= Total Cover	_	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)	100	= Total Cover		woody vines - All woody vines greater than 3.20 ft in neight.
<u> </u>				
1	_	_	_	— Hydrophytic
2	_			Vegetation
3				Present?
4		_		-
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate she	et.)			
The vegetation is dominated by Kentucky bluegrass with red	clover and alfalfa.			

Sampling Point: CL006g1U

SOIL							Sampling Point: CL006g1U
Profile	e Description: (Describe to the	depth ne	eded to document the	indicator or	confirm th	e absence of ir	ndicators.)
Depth Matrix Redox Features							
(inche	, , ,	%	Color (moist)	% Туре	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 2 1	_ 100				sil	
12-24	10YR 2 1	_ 50				sicl	
12-24	10YR 4 3	_ 50				sicl	Mixed matrix.
		_		_			
						• '	
							-
							-
			-	- — —			-
1Type:	C=Concentration, D=Depletion, RM=	 Reduced M		 ains.			
	Soil Indicators:		,			Indicators fo	r Problematic Hydric Soil <sup>3</sup> :
	Histosol (A1)		Polyvalue Below  149B)	Surface (S8) (LRI	R R, MLRA		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	Histic Epipedon (A2)		Thin Dark Surface	e (S9) <b>(LRR R. M</b> I	LRA 149B)	Coast P	rairie Redox (A16)(LRR K, L, R)
	Black Histic (A3)		Loamy Mucky M		•		ucky Peat or Peat (S3) (LRR K, L, R)
	Hydrogen Sulfide (A4)		Loamy Gleyed M		-,		rface (S7) (LRR K, M)
	Stratified Layers (A5)		Depleted Matrix				ue Below Surface (S8) (LRR K, L)
	Depleted Below Dark Surface (A11)		Redox Dark Surfa				rk Surface (S9) ( <b>LRR K, L</b> )
	Thick Dark Surface (A12)		Depleted Dark Su	• •		☐ Iron-Ma	aganese Masses (F12) (LRR K, L, R)
	Sandy Mucky Mineral (S1)		Redox Depressio	ns (F8)		Piedmor	nt Floodplain Soils (F19) <b>(MLRA 149B)</b>
	Sandy Gleyed Matrix (S4)					Mesic Sp	podic (TA6) <b>(MLRA 144A, 145, 149B)</b>
	Sandy Redox (S5)					Red Par	rent Material (F21)
	Stripped Matrix (S6)					Very Sh	allow Dark Surface (TF12)
	Dark Surface (S7) (LRR R, MLRA 149	в)				Other (e	explain in remarks)
Restric	tive Layer (if observed):	[					

Hydric Soil Present? No

Type: \_

Remarks:

Depth (inches):

The soils are silty loam over silty clay loam with no hydric soil indicators.