WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Clearwate	r	Sampling Date:	2015-07-09						
Enbridge Applicant/Owner:			Minnesota	Sampling Point:	CL005g1U						
ACM/LE	B		State:								
Investigator(s):		Sec	tion, Township, Range: _								
ris Landform (hillslope, terrace, etc.):	e 		Local Relief (concave, co	Conca onvex, none):	0-2 Slope (%):						
Subregion (LRR or MLRA):		47 Latitude:	7.7168373810 Lor	-95.55442051							
582 Soil Map Unit Name:					on:						
Are climatic/hydrologic conditions or	the site typic	al for this time of year	2 (if no evolain in Rema	rks)·	Yes						
	Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No No No Are Ves Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present?										
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal Circu	mstances" present?							
No No No No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks)											
SUMMARY OF FINDINGS - Attach			cations, transects, impo	ortant features, etc.							
Hydrophytic Vegetation Present?		No	Is the Sampled Area								
		No		No							
Hydric Soil Present?		—— No	within a Wetland?		-						
Wetland Hydrology Present?			If yes, optional Wetland	d Site ID:							
Remarks: (Explain alternative proced											
The upland is located on a rise betw	een two wetla	ands and dominated by	y grass species including	smooth brome, Kentucky bluegra	iss, and orchard grass.						
HYDROLOGY											
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)						
Primary Indicators (minimum of one	is required: ch	eck all that apply)		Surface Soil Cracks (B6)						
Surface Water (A1)	_	Water-Stained Leave	es (B9)	Drainage Patterns (B							
High Water Table (A2)	_	Aquatic Fauna (B13)	• •	Moss Trim Lines (B1)	i						
Saturation (A3) Marl Depo				Dry-Season Water Ta	Dry-Season Water Table (C2)						
Water Marks (B1)			dor (C1)	Crayfish Burrows (C8)							
Sediment Deposits (B2)	Sediment Deposits (B2) Oxidized F		res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3)	_	Presence of Reduce	d Iron (C4)	Stunted/Stressed Plants (D1)							
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Irc		on in Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)						
Iron Deposits (B5)	Iron Deposits (B5) Thin Muck		C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery	Inundation Visible on Aerial Imagery (B7) Other (Exp		marks)	Microtopographic Re	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface	(B8)			FAC-Neutral Test (D5)						
Field Observations:											
Surface Water Present?	No	Depth (inches)									
Water Table Present?	No	Depth (inches)									
Saturation Present?	<u>No</u>	Depth (inches)	·	Wetland Hydrology Present?	No						
(includes capillary fringe) Describe Recorded Data (stream gau	ao monitorin	r wall parial photos p	roulous inspections) if a	vailable							
Describe Recorded Data (stream gau	ge, monitorin	g well, aeriai pilotos, p	revious irispections), ir a	valiable.							
Remarks:											
No indicators of wetland hydrology v	were observed	l.									

Sampling Point: CL005g1U **VEGETATION** - Use scientific names of plants. Absolute Indicator **Dominance Test worksheet:** Dominant % Cover (Plot Size: **Number of Dominant Species** Status Tree Stratum Species? That Are OBL, FACW, or FAC: $\frac{0}{2}$ Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _(A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: **OBL** species x 1 = Total Cover **FACW** species 22.00 44 Sapling/Shrub Stratum (Plot Size: ____ 0.00 208 **FACU** species х3 32.00 160 **UPL** species x 4 106 412 Column Totals (A) Prevalence Index = $B/A = \frac{3.8867924...}{}$ **Hydrophytic Vegetation Indicators:** _ 1 - Rapid Test for Hydrophytic Vegetation _ 2 - Dominance Test is > 50% <u>no</u> 3 - Prevalence Index is $\leq 3.0^1$ = Total Cover Herb Stratum (Plot Size: 5 ft 4 - Morphological Adaptations (Provide Bromus inermis supporting data in Remarks or on a separate sheet) 25.00 UPL Yes Poa pratensis 20.00 No FACU Problematic Hydrophytic Vegetation (Explain) Dactylis glomerata 15.00 No FACU Indicators of hydric soil and wetland hydrology must be present, unless Solidago canadensis 15.00 FACU No disturbed or problematic. Phalaris arundinacea 10.00 FACW No **Definitions of Vegetation Strata:** Medicago sativa UPL 5.00 No 7. Salix lucida 5.00 No FACW Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. Poa palustris 5.00 No FACW Carex granularis 2.00 No FACW Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Erigeron strigosus 10 2.00 No **FACU** Asclepias syriaca Herb - All herbaeceous (non-woody) plants, regardless of size, and 11. UPL 2.00 No woody plants less than 3.28 ft tall. 12. 106 Woody vines - All woody vines greater than 3.28 ft in height. = Total Cover Woody Vine Stratum (Plot Size:_____) Hydrophytic Vegetation Present? =Total Cover **Remarks:** (include photo numbers here or on a separate sheet.) The vegetation is dominated by smooth brome with Kentucky bluegrass and orchard grass also common.

SOIL Profile Descripeth	ription: (Describe to the	e depth n	eeded to document the	indicat		nfirm th	ne absence of ir	Sampling Point: CL005g1U ndicators.)	
(inches) 0-3	Color (moist) 10YR 3 1	% 100	Color (moist)	%	Type ¹	Loc ²	Texture sicl	Remarks	
3-24	10YR 2 1	20	-				scl	very fine sand	
3-24	10YR 5 2	55	10YR 5 8	25	С	М	scl	very fine sand	
			_		_				
			<u> -</u>						
	_				_	-		-	
	_		_						
								_	
	<u></u>		<u>-</u> , -	-				-	
¹ Type: C=Conc	entration, D=Depletion, RM		 Matrix, MS=Masked Sand Gr	 ains.		-			
Hydric Soil Ind				,			Indicators fo	or Problematic Hydric Soil ³ :	
Histosol (A1)		Polyvalue Below Surface (S8) (LRR R, MLRA 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B)			
	pipedon (A2)		Thin Dark Surface (S9) (LRR R, MLRA 149B)			149B)	Coast Prairie Redox (A16)(LRR K, L, R)		
☐ Black H	istic (A3)		Loamy Mucky Mineral (F1) (LRR K, L))	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
☐ Hydrog	en Sulfide (A4)	4) Loamy Gleyed Matrix (F2)			Dark Surface (S7) (LRR K, M)				
Stratifie	ed Layers (A5)	Depleted Matrix (F3)				Polyvalue Below Surface (S8) (LRR K, L)			
☐ Deplete	ed Below Dark Surface (A11)	١	Redox Dark Surfa	ace (F6)			Thin Da	rk Surface (S9) (LRR K, L)	
Thick D	ark Surface (A12)		Depleted Dark Si	urface (F	7)		Iron-Ma	aganese Masses (F12) (LRR K, L, R)	
Sandy N	Mucky Mineral (S1)		Redox Depression	ns (F8)			Piedmo	nt Floodplain Soils (F19) (MLRA 149B)	
Sandy 0	Gleyed Matrix (S4)						Mesic S	podic (TA6) (MLRA 144A, 145, 149B)	
Sandy F	Redox (S5)						Red Par	rent Material (F21)	
Strippe	d Matrix (S6)						Very Sh	nallow Dark Surface (TF12)	
Dark Su	rface (S7) (LRR R, MLRA 149	9B)					Other (explain in remarks)	

The soils are silty clay loam over a mixed layer of very fine sandy clay loam. Relict hydric features are present, but the profile does not meet a hydric indicator.

Hydric Soil Present? No

Restrictive Layer (if observed):

Depth (inches):

Type: _

Remarks: