WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Clearwater City/County:		2015-07-09 Sampling Date:		
Enbridge			Minnesota		CL005f1U	
Applicant/Owner:ACM/I	FR		State:	Sampling Point:		
Investigator(s):		Sec	tion, Township, Range: _			
Landform (hillslope, terrace, etc.):	ise		Local Relief (concave, co	Conve onvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA):		47 Latitude:	7.7167898137 Lor	-95.55270994	Minnesota State	
765 Soil Map Unit Name:	<u>.</u>				on:	
•				•	Yes	
Are climatic/hydrologic conditions of	•••	•		•		
Are Vegetation No No No No	or Hydrology	o significantly distur	bed? Are "Normal Circu	mstances" present?		
Are Vegetation No No No , or	No Hydrology	_ naturally problemati	ic? (If needed, explain a	ny answers in Remarks)		
SUMMARY OF FINDINGS - Attack	h site map shov	ving sampling point lo	ocations, transects, impo	ortant features, etc.		
N		No				
Hydrophytic Vegetation Present?		No	Is the Sampled Area	No		
Hydric Soil Present?			within a Wetland?		.	
Wetland Hydrology Present?		No	If yes, optional Wetland Site ID:			
Remarks: (Explain alternative proce	edures here or i	n a separate report.)				
The upland is located on a berm be	etween two we	tlands and is dominate	ed by smooth brome and	Kentucky bluegrass.		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
Primary Indicators (minimum of one	o is roquirod, sh	ook all that apply)				
Surface Water (A1)	e is required, ci	Water-Stained Leave	ac (RQ)	Surface Soil Cracks (Drainage Patterns (E		
High Water Table (A2)	_	Aquatic Fauna (B13)	• •	Moss Trim Lines (B1	·	
		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)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)		
Iron Deposits (B5) Thin M		Thin Muck Surface (C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (E		Other (Explain in Re	marks)	Microtopographic Re	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface	ce (B8)			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>No</u>	
(includes capillary fringe)				<u> </u>		
Describe Recorded Data (stream ga	uge, monitoring	g well, aerial photos, p	revious inspections), if a	vailable:		
Remarks:						
No wetland hydrology indicators w	ere observed.					

			Sampling Point: CL005f1U	
Absolute	Dominant	Indicator	Dominance Test worksheet:	
% Cover	Species?	Status	Number of Dominant Species	
			That Are OBL, FACW, or FAC: 0 (A)	
		_	Total Number of Dominant	
			2	
			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>	
			FACW species <u>2.00</u> x 2 <u>4</u>	
	_	_	FACU species 0.00 x 3 256	
			UPL species <u>30.00</u> x 4 <u>150</u>	
		_	Column Totals (A) (B)	
	_		Prevalence Index = B/A = 4.2708333	
			Hydrophytic Vegetation Indicators:	
			1 - Rapid Test for Hydrophytic Vegetation	
			no 2 - Dominance Test is > 50%	
0	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$	
			4 - Morphological Adaptations ¹ (Provide	
30.00	Yes	UPL	supporting data in Remarks or on a separate sheet)	
30.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10.00	No	FACU		
10.00	No	FACU		
5.00	No	FACU	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
5.00	No	FACU		
2.00	No No	FACW		
2.00	No	FACU		
2.00	No	FACU	 Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 	
	_			
	_	-	Herb - All herbaeceous (non-woody) plants, regardless of size, and	
	_	_	woody plants less than 3.28 ft tall.	
06		_	Woody vines - All woody vines greater than 3.28 ft in height.	
90	_ = Total Cover		woody vines - All woody vines greater than 3.28 it in neight.	
	_	_		
			Hydrophytic Vegetation	
		_	Present?	
0		_	-	
0	=Total Cover		_	
	0 30.00 30.00 10.00 5.00 5.00 2.00 2.00	0 = Total Cover 30.00 Yes 30.00 Yes 10.00 No 10.00 No 5.00 No 5.00 No 2.00 No 2.00 No	0 = Total Cover 30.00 Yes UPL 30.00 Yes FACU 10.00 No FACU 5.00 No FACU 5.00 No FACU 2.00 No FACU 2.00 No FACU 2.00 No FACU	

Sampling Point: CL005f1U SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type¹ Loc² (inches) Color (moist) % Color (moist) Texture Remarks 0-14 10YR 2 1 100 sil 14-24 10YR 3 1 55 10YR 3 6 5 С Μ fine sand scl 14-24 10YR 6 2 30 10YR 58 10 С M cl ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: **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) Restrictive Layer (if observed):

Hydric Soil Present? No

Type:

Remarks:

Depth (inches):

The soils are silt loam over fine sandy clay loam and clay loam with no hydric soil indicators.