WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Citv	Clearwate /County:	r	2015-07-08 Sampling Date:		
Enbridge Applicant/Owner:			Minnesota	Sampling Point:	CL004d1U	
JRT/KRG			State:	Sampling Point.		
Investigator(s):		Sect	tion, Township, Range: _			
Talf Landform (hillslope, terrace, etc.):			Local Relief (concave, co	LL onvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA):		47 Latitude:	7.7161452873 Lor	-95.56217067 ngitude: Dat	Minnesota State	
Soil Map Unit Name:				NWI Classification	on:	
Are climatic/hydrologic conditions on t	he site typical	for this time of vear	? (if no. explain in Rema	rks):	Yes	
No No Are Vegetation, Soil, or F	••	•		•		
No No	No					
Are Vegetation, Soil, or Hy	drology	naturally problemati	ic? (If needed, explain a	iny answers in Remarks)		
CLIMMADY OF FINDINGS Assessed as				untarent faraturura anta		
SUMMARY OF FINDINGS - Attach si	No.		cations, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?		Is the Sampled Area				
Hydric Soil Present?	Ye	es	within a Wetland?	No		
inyane son resent.	No	<u>—</u> D			-	
Wetland Hydrology Present?			If yes, optional Wetland Site ID:			
Remarks: (Explain alternative procedu						
The upland is located in a soybean fie	ld. Soils are hy	dric, but the area lac	cks wetland hydrology ar	nd hydrophytic vegetation.		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
	wa ayyina da ah ay	ok all that analys)				
Primary Indicators (minimum of one is	required; chec		(DO)	Surface Soil Cracks		
. ,		Water-Stained Leave	• •	Drainage Patterns (B10)		
		Aquatic Fauna (B13)		Moss Trim Lines (B16)		
		Marl Deposits (B15)Hydrogen Sulfide Od		Dry-Season Water Table (C2)		
Water Marks (B1)		, ,	• •	Crayfish Burrows (C8)		
		Presence of Reduced	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted/Stressed Plants (D1)		
Drift Deposits (B3)					Geomorphic Position (D2)	
Algal Mat or Crust (B4) Iron Deposits (B5)		Recent Iron Reduction		•		
		Thin Muck Surface (Shallow Aquitard (D3)	
		Other (Explain in Rei	marks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)		
Sparsely Vegetated Concave Surface (I Field Observations:	38)			FAC-Neutral Test (DS)	
Surface Water Present?	No	Depth (inches)				
Water Table Present?	No					
Saturation Present?	No	Depth (inches) Depth (inches)		Wetland Hydrology Present?	No	
(includes capillary fringe)	<u></u>	Depth (inches)		wetianu nyurology riesent:	<u></u>	
Describe Recorded Data (stream gauge	. monitoring v	vell, aerial photos, p	revious inspections), if a	vailable:		
l and the state of	, , , , ,	, , , , , , , , , , , , , , , , , , , ,				
Remarks:						
No wetland hydrology indicators are p	resent.					

VEGETATION - U	/EGETATION - Use scientific names of plants. Sampling Point: CL004d1U							
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum	(Plot Size: 30 ft) % 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		<u> </u>			Percent of Dominant Species			
5			_		0 That Are OBL, FACW, or FAC:(A/B)			
6		<u> </u>	_	_	Prevalence Index worksheet:			
7		<u> </u>	_		Total % Cover of: Multiply by:			
		0	_ = Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>			
Sapling/Shrub Stratur	<u>m</u> (Plot Size: <u>15 ft</u>)				FACW species 0.00 x 2 0			
1			_		FACU species 0.00 x 3 60			
2		<u> </u>	_		UPL species <u>15.00</u> x 4 <u>75</u>			
3		<u> </u>	_		Column Totals <u>30</u> (A) <u>135</u> (B)			
4		<u> </u>	_		Prevalence Index = B/A = $\frac{4.5}{}$			
5		<u> </u>			Hydrophytic Vegetation Indicators:			
6			_	_	1 - Rapid Test for Hydrophytic Vegetation			
7		<u> </u>	_	_	no 2 - Dominance Test is > 50%			
		0	_ = Total Cover		<u>no</u> 3 - Prevalence Index is $\leq 3.0^1$			
Herb Stratum (Plot Size: 5 ft)					4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1. Glycine max		<u>15.00</u>	Yes	_	-			
2. Melilotus officinali		2.00	No No	<u>FACU</u>	Problematic Hydrophytic Vegetation ¹ (Explain)			
3. Portulaca oleracea		2.00	No No	FACU	1 Indicators of hydric soil and wetland hydrology must be present, unless			
4. Taraxacum officina		2.00	No No	<u>FACU</u>	disturbed or problematic.			
5. Chenopodium albu	JIII	2.00	No No	<u>FACU</u>	Definitions of Vegetation Strata:			
6					-			
7			_	_	 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. 			
8			_	_				
9			_	_				
10		<u> </u>	_	_				
11			_	_	Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.			
12			_	_				
		23	_ = Total Cover					
Woody Vine Stratum	(Plot Size:)							
1			_	_	_			
2					Hydrophytic Vegetation Present?			
3			_	_				
4				_	_			
		0	_ =Total Cover					
Remarks: (include pl	noto numbers here or on a separate	e sheet.)						
The upland is mostly	soybeans and bare ground.							

Sampling Point: CL004d1U 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 sic 14-24 10YR 4 2 85 10YR 68 15 С Μ С 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? Yes

Type:

Remarks:

Depth (inches):

The upland meets hydric soil indicator A12.