WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Clearwater City/County:		Sampling Date:	2015-07-09	
Enbridge			Minnesota		CL004f1U	
Applicant/Owner: KRG/JRT			State:	Sampling Point:		
Investigator(s):		Sec	tion, Township, Range: _			
talf Landform (hillslope, terrace, etc.):			Local Relief (concave, co	LL onvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA):		47 Latitude:	7.7168091340 Lon	-95.56042305 ngitude: Dat	Minnesota State	
765 Soil Map Unit Name:					on:	
					Yes	
Are climatic/hydrologic conditions on t		•	. , ,	•		
Are Vegetation No No No , or H	No 	o significantly distur	bed? Are "Normal Circui	Yes mstances" present?		
Are Vegetation No No No No No No Hy	No drology	_ naturally problemati	ic? (If needed, explain a	ny answers in Remarks)		
SUMMARY OF FINDINGS - Attach si	ite map shov	ving sampling point lo	ocations, transects, impo	ortant features, etc.		
No				·		
Hydrophytic Vegetation Present?	•	 No	Is the Sampled Area	No		
Hydric Soil Present?	,		within a Wetland?		-	
Wetland Hydrology Present?	I	No	If yes, optional Wetland Site ID:			
Remarks: (Explain alternative procedu	res here or i	n a separate report.)	1			
The upland point is located in an until	led area adja	cent to a soybean fiel	d. Vegetation is dominat	ed by grasses.		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
Primary Indicators (minimum of one is	required; cii	Water-Stained Leave	oc (BO)	Surface Soil Cracks (
		Aquatic Fauna (B13)	• •	Drainage Patterns (B10) Moss Trim Lines (B16)		
		Marl Deposits (B15)		Dry-Season Water Table (C2)		
		Hydrogen Sulfide Oc		Crayfish Burrows (C8)		
			res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
		Presence of Reduced		Stunted/Stressed Plants (D1)		
		Recent Iron Reduction	on in Tilled Soils (C6)		Geomorphic Position (D2)	
		Thin Muck Surface (C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (Expl		Other (Explain in Re	marks)	Microtopographic Re	lief (D4)	
Sparsely Vegetated Concave Surface (I	B8)			FAC-Neutral Test (D5)	
Field Observations:		'	,			
Surface Water Present?	No	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)						
Describe Recorded Data (stream gauge	, monitoring	g well, aerial photos, p	revious inspections), if av	vailable:		
Remarks:						
No wetland hydrology indicators were	observed.					

VEGETATION - Use scientific names of plants.				Sampling Point: CL004f1U	
·	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: 1 (A)	
2				Total Number of Dominant	
				2	
3		_		Species Across All Strata: (B)	
4				Percent of Dominant Species	
5				50 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	
Sapling/Shrub Stratum (Plot Size: 15 ft)		_		FACW species 50.00 x 2 100	
1.				FACU species 2.00 x 3 236	
2.				UPL species 5.00 x 4 25	
3		_		Column Totals 116 (A) 367 (B)	
4.	-	_	_	Prevalence Index = B/A = 3.1637931	
5.		_		Hydrophytic Vegetation Indicators:	
6		_	_	1 - Rapid Test for Hydrophytic Vegetation	
7		_		no 2 - Dominance Test is > 50%	
7.	0	= Total Cover	-	no 3 - Prevalence Index is $\leq 3.0^{1}$	
Herb Stratum (Plot Size: 5 ft)	<u>-</u>	_ = 10tal covel		4 - Morphological Adaptations (Provide	
Poa palustris	40.00	Yes	FACW	supporting data in Remarks or on a separate sheet)	
Poa pratensis	40.00	Yes	FACU	Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless	
2. Carex granularis	5.00	No No	FACW		
Solidago canadensis	5.00	No No	FACU		
Taraxacum officinale	5.00		FACU	disturbed or problematic.	
Circium arranca	5.00	No No	FACU	_ Definitions of Vegetation Strata:	
6. Chistin arvense 7. Phalaris arundinacea	5.00	No No	FACW	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
8. Bromus inermis	5.00				
8 9. Euthamia graminifolia	2.00	No No	FAC	 Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 	
	2.00		- FAC		
10. Achillea millefolium	2.00	<u>No</u>	FACU		
11. Medicago lupulina	2.00	No No	FACU	Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
12		_			
	116	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: 30)					
1		_		_	
2		_		Hydrophytic Vegetation Present?	
3		_			
4				_	
	0	_ =Total Cover			
Remarks: (include photo numbers here or on a separate sheet	t.)				
Vegetation is dominated by Kentucky bluegrass and fowl blueg	grass.				

Sampling Point: CL004f1U 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 14-18 2.5Y 4 1 98 2.5Y 6 8 2 С Μ fine sandy clay sc 18-24 2.5Y 5 3 80 2.5Y 6 8 20 С M SC fine sandy clay 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)

Dark Surface (S7) (LRR R, MLRA 149B)

Soil consists of a thick black silty clay layer underlain by lighter fine sandy clay with redox. No hydric soil indicators were observed.

Restrictive Layer (if observed):

Depth (inches):

Type:

Remarks:

Other (explain in remarks)

Hydric Soil Present? No