WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Clearwater City/County:		Sampling Date:	2015-07-09		
Enbridge			Minnesota		CL004g1U		
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:	7.7169788256 Lon	-95.56210446 gitude: Dat	Minnesota State um:		
765 Soil Map Unit Name:					on:		
Are climatic/hydrologic conditions on t	the cite tunio	al for this time of year	2 /if no ovalain in Roman	des).	Yes		
. , .		•		•			
Are Vegetation No No No Are Vegetation , or H	Hydrology	significantly distur	bed? Are "Normal Circur	mstances" present?			
Are Vegetation, Soil, or Hy	No drology	_ naturally problemati	ic? (If needed, explain a	ny answers in Remarks)			
CLINANA DV OF FINIDINGS AND I							
SUMMARY OF FINDINGS - Attach si		ving sampling point lo	cations, transects, impo	rtant features, etc.	1		
Hydrophytic Vegetation Present?			Is the Sampled Area				
Hydric Soil Present?	,	Yes	within a Wetland?	No			
	•	No	If yes, optional Wetland				
Wetland Hydrology Present?		<u> </u>	ii yes, optional wetiand	——————————————————————————————————————			
Remarks: (Explain alternative procedu							
The upland point is located in an agric	cultural field	currently planted in sc	bybeans.				
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)		
Primary Indicators (minimum of one is	required: ch	eck all that annly)		Surface Soil Cracks (R6)		
Surface Water (A1)		Water-Stained Leave	es (B9)	Drainage Patterns (E			
High Water Table (A2)		Aquatic Fauna (B13)	• •	Moss Trim Lines (B1	·		
Saturation (A3)	_	Marl Deposits (B15)		Dry-Season Water Ta	able (C2)		
Water Marks (B1)	·		dor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)			es on Living Roots (C3)	Saturation Visible on	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)			d Iron (C4)	Stunted/Stressed Pla	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)			on in Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)		
Iron Deposits (B5)	Iron Deposits (B5) Thin Muck Surf		C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (I	B7)	Other (Explain in Re	marks)	Microtopographic Re	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (I	88)			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)							
Describe Recorded Data (stream gauge	, monitoring	g well, aerial photos, p	revious inspections), if av	vallable:			
Remarks:							
No wetland hydrology indicators were	observed.						

VEGETATION - Use scientific names of plants. Sampling Point: CL004g1U						
	·	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					That Are OBL, FACW, or FAC:(A/B)	
6				_	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 Stratun	n (Plot Size: 15 ft)				FACW species <u>2.00</u> x 2 <u>4</u>	
1					FACU species 0.00 x 3 16	
2			_		UPL species <u>27.00</u> x 4 <u>135</u>	
3		<u> </u>			Column Totals	
4					Prevalence Index = B/A = 4.6969696	
5		<u> </u>			Hydrophytic Vegetation Indicators:	
6		<u> </u>		_	1 - Rapid Test for Hydrophytic Vegetation	
7					no 2 - Dominance Test is > 50%	
		0	_ = Total Cover		<u>no</u> 3 - Prevalence Index is $\leq 3.0^1$	
Herb Stratum (Plot Si	ze: <u>5 ft</u>)				4 - Morphological Adaptations ¹ (Provide	
1. Glycine max		25.00	Yes		supporting data in Remarks or on a separate sheet)	
2. Brassica nigra		2.00	No		Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Trifolium hybridum		2.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless	
4. Chenopodium albu	ım	2.00	No	FACU	disturbed or problematic.	
5. Persicaria pensylva	anica	2.00	No	FACW	Definitions of Vegetation Strata:	
6				_	_	
7		<u> </u>		_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
8			_	_	height (DBH), regardless of height. —	
9				_	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.	
		33	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum	(Plot Size: 30 ft)					
1					_[
2					Hydrophytic	
3					Vegetation Present?	
4				_		
		0	=Total Cover			
Remarks: (include ph	oto numbers here or on a separate s	heet.)				
Vegetation is mostly	planted soybeans with a few weedy s	pecies also present.				

SOIL								Sampling Point: CL004g1U
	iption: (Describe to the	depth n	eeded to docun			nfirm th	ne absence of in	dicators.)
Depth	Matrix			Redox Feature		. 2		
(inches) 0-10	Color (moist) 10YR 2 1	% 100	Color (mo	oist) %	Type ¹	Loc ²	Texture cl	Remarks
10-24	2.5Y 6 2	98	2.5Y 6 6	2	С	М	C	
		_						
	_				_			
	_		_		_			
	_		-					
			_		_			
	_		-				· 	
	_		_					
¹ Type: C=Conce	 entration, D=Depletion, RM=	Reduced I	– Matrix, MS=Masked	d Sand Grains.			-	² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indi	cators:						Indicators for	Problematic Hydric Soil ³ :
Histosol	(A1)		Polyval	ue Below Surface	(S8) (LRR R	, MLRA	2 cm Mu	ıck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		☐ Thin Da	rk Surface (S9) (LI	RR R, MLRA	A 149B)	Coast Pr	airie Redox (A16)(LRR K, L, R)
☐ Black Hi	stic (A3)		Loamy	Mucky Mineral (F	1) (LRR K, L	_)	5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
☐ Hydroge	en Sulfide (A4)		Loamy	Gleyed Matrix (F2)		Dark Sur	face (S7) (LRR K, M)
Stratifie	d Layers (A5)		Deplete	ed Matrix (F3)			Polyvalu	e Below Surface (S8) (LRR K, L)
✓ Deplete	d Below Dark Surface (A11)		Redox [Dark Surface (F6)			Thin Dark	k Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Deplete	ed Dark Surface (F	7)		☐ Iron-Mag	ganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox [Depressions (F8)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Pare	ent Material (F21)
Stripped	d Matrix (S6)						☐ Very Sha	allow Dark Surface (TF12)
Dark Sui	rface (S7) (LRR R, MLRA 149	3)					Other (e	xplain in remarks)
Restrictive Laye	er (if observed):							
Type:						ı	Hydric Soil Present?	? Yes
Depth	(inches):						•	

Soil consists of black clay underlain by a depleted clay, meeting indicator A11. Though hydric soil is present, the dominant vegetation and lack of hydrology indicate the area is upland.

Remarks: