,	WETLAND DETE	RMINATION DA	TA FORM - North Ce	ntral and No	rtheast Region			
SPP Project/Site:	Ci	Clearwater City/County:		_	Samplin	2015-07-01 Sampling Date:		
Enbridge Applicant/Owner:			Minnesota State:		CLC5045a1U Sampling Point:		5a1U	
	/BEH		Section, Township, Ra					
	Toe slone			-	LC		0-2	
Landform (hillslope, terrace, etc.)	:		Local Relief (conc			Slope (
LRR K Subregion (LRR or MLRA):		Latitude	47.5155272 e:	Longitude:	95.3556548	Mir Datum:	inesota State	
1272b Soil Map Unit Name:			N			WI Classification:		
Are climatic/hydrologic condition	s on the site typic	al for this time of	year? (if no, explain in I	Remarks):		Yes		
Are Vegetation, Soil)			Yes			
No No No Are Vegetation, Soil,	or Hydrology	_ naturally proble	ematic? (If needed, exp	olain any answe	ers in Remarks)			
SUMMARY OF FINDINGS - Atta		No	int locations, transects	, important fea	itures, etc.			
Hydrophytic Vegetation Present?			Is the Sampled A	rea				
Hydric Soil Present?		Yes	within a Wetland	1?	No			
		No	If yes, optional W	etland Site ID:				
Wetland Hydrology Present? Remarks: (Explain alternative pro								
HYDROLOGY								
Wetland Hydrology Indicators:				<u>S</u>	econdary Indicat	ors (minimum c	f two required)	
Primary Indicators (minimum of c	one is required; ch	eck all that apply	<u>)</u>		Surface So	l Cracks (B6)		
Surface Water (A1) Water-Stain			Leaves (B9)		Drainage Pa	atterns (B10)		
High Water Table (A2) Aquatic Fau			(B13)		Moss Trim	Lines (B16)		
Saturation (A3)	Saturation (A3) Marl Deposi				Dry-Season Water Table (C2)			
Water Marks (B1)	Water Marks (B1) Hydrogen S				Crayfish Burrows (C8)			
			spheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
	Drift Deposits (B3) Presence of		duction in Tilled Soils (C6)		Stunted/Stressed Plants (D1)			
Algar Mat of Crust (64)					Shallow Aquitard (D3)			
Inundation Visible on Aerial Ima	gery (B7)	Other (Explain		Microtopographic Relief (D4)				
Sparsely Vegetated Concave Sur					FAC-Neutra			
Field Observations:								
Surface Water Present?	No	Depth (inc	ches)					
Water Table Present?	No	Depth (inc	ches)					
Saturation Present?	No	Depth (inc	ches)	Wetla	nd Hydrology Pr	esent?	No	
(includes capillary fringe)								
Describe Recorded Data (stream	gauge, monitoring	well, aerial photo	os, previous inspection	s), if available:				
Remarks:								
No primary or secondary wetland	d hydrology indica	tors were observe	ed.					

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Sampling Point: <u>CLC5045a1U</u> Dominance Test worksheet:		
ee Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species		
		Species.	Status	That Are OBL, FACW, or FAC: $\frac{0}{2}$ (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 $0.00 \times 1 = 0$		
pling/Shrub Stratum (Plot Size:)				FACW species 0.00 x 2 0		
				FACU species x 3		
				UPL species <u>15.00</u> x 4 <u>75</u>		
				Column Totals <u>65</u> (A) <u>275</u> (B)		
				Prevalence Index = $B/A = \frac{4.2307692}{4.2307692}$		
				Hydrophytic Vegetation Indicators:		
				1 - Rapid Test for Hydrophytic Vegetation		
				no2 - Dominance Test is > 50%		
	0	_ = Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$		
erb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations ¹ (Provide		
Elymus repens	30.00	Yes	FACU	supporting data in Remarks or on a separate sheet)		
Medicago sativa	15.00	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)		
Dactylis glomerata	10.00	No	FACU			
Trifolium pratense	5.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
Trifolium hybridum	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.		
		_		-		
				Sapling/Shrub - Woody plants less than 3 in. DBH and greater that or equal to 3.28 ft (1 m) tall.		
				-		
l				Herb - All herbaeceous (non-woody) plants, regardless of size, an woody plants less than 3.28 ft tall.		
2				_		
	65	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.		
loody Vine Stratum (Plot Size:)						
				_		
				Hydrophytic Vogetation		
	<u> </u>			Vegetation Present?		
	0	=Total Cover		—		

SOIL

Sampling Point: CLC5045a...

	ption: (Describe to the	depth ne				nfirm th	e absence of indica	ators.)		
Depth			Redox F				_ .			
(inches)	Color (moist) 10YR 2 2	% 05	Color (moist) 5YR 3 4	% 5	Type ¹	Loc ²	Texture	Remarks		
0-11		- <u>95</u>		- 5	- <u>c</u>	<u>M</u>	VFSL			
11-24	_ 10YR 5 2	90	10YR 5 8	- 10	<u>C</u>	<u>M</u>	FSL			
							· ·			
							· ·			
							· ·			
							·			
							·			
							·			
							·			
							·			
							·			
¹ Type: C=Conce	ntration, D=Depletion, RM=	Reduced N	latrix, MS=Masked Sand Gra	ains.				² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators:						Indicators for Prob	blematic Hydric Soil ³ :			
Histosol ((A1)		149B)	Surrace	58) (LRR n	, IVILKA	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)		
Histic Epi	ipedon (A2)	(A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)				\ 149B)	Coast Prairie Redox (A16)(LRR K, L, R)			
Black His	tic (A3)		Loamy Mucky Mi	ineral (F1	.) (LRR K, L	.)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)		
Hydroger	n Sulfide (A4)		Loamy Gleyed Matrix (F2)				Dark Surface	Dark Surface (S7) (LRR K, M)		
Stratified	l Layers (A5)		Depleted Matrix (F3)				Polyvalue Be	Polyvalue Below Surface (S8) (LRR K, L)		
Depleted	Below Dark Surface (A11)		Redox Dark Surface (F6)				Thin Dark Sur	Thin Dark Surface (S9) (LRR K, L)		
Thick Dar	rk Surface (A12)		Depleted Dark Surface (F7)				Iron-Magane	Iron-Maganese Masses (F12) (LRR K, L, R)		
	ucky Mineral (S1)		Redox Depressio				_	Piedmont Floodplain Soils (F19) (MLRA 149B)		
,	eyed Matrix (S4)		·				_	(TA6) (MLRA 144A, 145, 149B)		
							_	лаterial (F21)		
Sandy Re							_			
Stripped	Matrix (S6)						Very Shallow	v Dark Surface (TF12)		
Dark Surf	face (S7) (LRR R, MLRA 149 E	3)					Other (explai	in in remarks)		
Restrictive Layer	(if observed):	[
Туре:							Hydric Soil Present? Ye	24		
Depth ((inches):					r				
Remarks:										
Soil is dark very	fine sandy loam with redox	concentra	tions underlain by depleted	fine sand	dy loam; tł	ne soil pro	ofile meets two hydric s	soil indicators.		