	WETLAND DETER	RMINATION DATA	FORM - North Cer	ntral and Nor	theast Region		
SPP Project/Site:	Cit	Clearwat cy/County:	er	_	Samplin	2015-07-10 pling Date:	
Enbridge Applicant/Owner:			Minnesota State:	Samplin	CLC5005i1U Sampling Point:		
LEB	/BJC		ction, Township, Ran				
Landform (hillslope, terrace, etc.)	rise		Local Relief (conca	ive, convex, no	VV ne):		3-5 (%):
Subregion (LRR or MLRA):		4 Latitude:	7.667005960874	- Longitude:	95.40573569	M Datum:	innesota State
718C. Navta	ahwaush loam. 8 to	15 percent slopes					
Soil Map Unit Name:					IN WI CIAS	Yes	
Are climatic/hydrologic condition							
Are Vegetation, Soil	, or Hydrology	significantly distu	urbed? Are "Normal	Circumstances	" present?		
No No No Are Vegetation, Soil,	No or Hydrology	naturally problema	tic? (If needed exp	lain anv answe	ers in Remarks)		
, son,							
SUMMARY OF FINDINGS - Att	ach site map show	ring sampling point l	locations, transects,	important fea	tures, etc.		
Hydrophytic Vegetation Present?		No	Is the Sampled Are	ea			
	-	No				Yes	
Hydric Soil Present?	-	No	within a Wetland				
Wetland Hydrology Present?	-		If yes, optional We	etland Site ID:			
Remarks: (Explain alternative pro	ocedures here or in	n a separate report.)					
The upland sample point is locat	ted on a rise withir	a powerline corrido	or, adjacent to a road				
HYDROLOGY						( : :	-f t
Wetland Hydrology Indicators:				<u>5</u>			of two required)
Primary Indicators (minimum of o	one is required; ch				Surface Soi		
	Surface Water (A1) Water-Stained				Drainage Patterns (B10)		
High Water Table (A2) Aquatic Fauna					Moss Trim Lines (B16) Dry-Season Water Table (C2)		
Saturation (A3)Marl Deposit				Crayfish Burrows (C8)			
Water Marks (B1) Hydrogen Su			eres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
			ed Iron (C4)	Stunted/Stressed Plants (D1)			
			tion in Tilled Soils (C6)	Geomorphic Position (D2)			
Algai Mat of Clust (64) Recent non Algai Mat of Clust (64) Recent non Algai Mat of Clust (64) Thin Muck Su				Shallow Aquitard (D3)			
Indice points (co) Thin Mark ou T				Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)				FAC-Neutral Test (D5)			
Field Observations:							
Surface Water Present?	No	Depth (inches	s)				
Water Table Present?	No	Depth (inches	s)				
Saturation Present?	No	Depth (inches	s)	Wetlar	nd Hydrology Pre	esent?	No
(includes capillary fringe)							1
Describe Recorded Data (stream	gauge, monitoring	well, aerial photos,	previous inspections	), if available:			
Remarks:							
No indicators of wetland hydrolo	ogy were observed						

## **VEGETATION** - Use scientific names of plants.

			Absolute	Dominant	Indicator	Dominance Test worksheet:		
ee Stratum	(Plot Size:	)	% Cover	Species?	Status	Number of Dominant Species		
	·					That Are OBL, FACW, or FAC: (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         x 1         0		
anling/Shrub Stratur	m (Plot Size:	)				FACW species 17.00 x 2 34		
	<u></u>					FACU species 0.00 x 3 188		
					_	UPL species 30.00 x 4 150		
						Column Totals 94 (A) 372 (B)		
						Prevalence Index = $B/A = \frac{3.9574468}{3.9574468}$		
						Hydrophytic Vegetation Indicators:		
						1 - Rapid Test for Hydrophytic Vegetation		
			0			$\frac{no}{no} = 2 - Dominance Test is > 50\%$ $\frac{no}{3} - Prevalence Index is \le 3.0^{1}$		
	· . 5 ft · ·		<u> </u>	= Total Cover				
<u>erb Stratum</u> (Plot S Pteridium aquilinu			20.00	Voc	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
Bromus inermis			30.00	Yes	_ FACU			
Phalaris arundinac			20.00	Yes		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
Arctium minus			15.00	<u>No</u>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless		
Eurybia macrophy	lla		10.00	<u>No</u>	FACU	disturbed or problematic.		
			5.00	No		Definitions of Vegetation Strata:		
Cirsium arvense			5.00	<u>No</u>	UPL	-		
Solidago gigantea			5.00	No	FACU	Tree - Woody plants 3 in. (.76 cm) or more in diameter at br height (DBH), regardless of height.		
			2.00	No	FACW	—		
Quercus rubra			2.00	No	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH and greater th or equal to 3.28 ft (1 m) tall.		
)								
1						Herb - All herbaeceous (non-woody) plants, regardless of size, and		
2						woody plants less than 3.28 ft tall.		
			94	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.		
Voody Vine Stratum	(Plot Size:	_)						
						_		
						Hydrophytic		
						Vegetation Present?		
·								
			0	=Total Cover				
			-			1		

SOIL	

Sampling Point: CLC5005i1U

Profile Descrip	tion: (Describe to the o	Jepth needed to	o document the	e indicator	or cor	firm the	absence of	indicators.)
Depth Matrix Redox Features				_				
(inches)	Color (moist)	% Co	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
		<b></b>						
		·						
		·						
		·						
		·						
		·						
<sup>1</sup> Type: C=Concen	tration, D=Depletion, RM=R	educed Matrix, M	S=Masked Sand Gr	ains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indica	itors:						Indicators	for Problematic Hydric Soil <sup>3</sup> :
Histosol (A	41)		Polyvalue Below <b>149B)</b>	Surface (S8)	) (LRR R,	MLRA	🗌 2 cm	Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epip	oedon (A2)		Thin Dark Surface	e (S9) <b>(LRR F</b>	R, MLRA	149B)	Coast	Prairie Redox (A16)(LRR K, L, R)
Black Histi	ic (A3)		Loamy Mucky M	ineral (F1) <b>(I</b>	LRR K, L)	)	🗌 5 cm	Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen	Sulfide (A4)	ulfide (A4) Loamy Gleyed Matrix (F2)					🗌 Dark	Surface (S7) ( <b>LRR K, M</b> )
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A11)		Redox Dark Surfa				🗌 Thin 🛙	Dark Surface (S9) ( <b>LRR K, L</b> )
Thick Dark	s Surface (A12)		Depleted Dark Su	urface (F7)			Iron-I	Maganese Masses (F12) (LRR K, L, R)
Sandy Mu	cky Mineral (S1)		Redox Depressio	ns (F8)			Piedm	nont Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Gle	yed Matrix (S4)						Mesic	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy Red	lox (S5)						🗌 Red F	Parent Material (F21)
Stripped N	Matrix (S6)						Very	Shallow Dark Surface (TF12)
Dark Surfa	ace (S7) <b>(LRR R, MLRA 149B</b> )	)					Othe	r (explain in remarks)
Restrictive Layer	(if observed):							
Туре:								
Depth (inches):						Hy	dric Soil Prese	ent? <u>No</u>
Remarks:				1				
Soils could not be	e sampled due to the proxin	nity of buried utilit	ies: soils are assum	ned to be no	n-hvdrig	- based on	the vegetatio	n and landscape position.
					,.			