	WETLAND DETER	RMINATION DAT	TA FORM - North Cent	ral and Northeast Regio	n		
SPP Project/Site:	Cit	Clearw ty/County:	/ater	Sampl	2015-07-10 Sampling Date:		
Enbridge Applicant/Owner:			Minnesota State:	Sampli	CLC5004v1U ng Point:		
LEB	/BJC		Section, Township, Range				
Landform (hillslope, terrace, etc.)	rise				0-2 Slope (%):		
Subregion (LRR or MLRA):			. 47.6679250784	-95.40585271	Minnesota State Datum:		
718C. Navta	ahwaush loam. 8 to	o 15 percent slope	5				
Soil Map Unit Name:				NWI Cla	assification:		
Are climatic/hydrologic condition	s on the site typica	al for this time of y	/ear? (if no, explain in Rer	marks):	Yes		
No NoYes Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present?							
Are Vegetation, Soil,							
Are Vegetation, Soil,	or Hydrology	_ naturally probler	matic? (If needed, explai	n any answers in Remarks)			
SUMMARY OF FINDINGS - Att	ach site map show	ving sampling poir	nt locations. transects. in	portant features, etc.			
		No					
Hydrophytic Vegetation Present?	-		Is the Sampled Area		No		
Hydric Soil Present?	-	No	within a Wetland?				
Wetland Hydrology Present?	I	No	If yes, optional Wetl				
Remarks: (Explain alternative pro	ocedures here or ir	 na separate repor	t.)				
The upland sample point is local							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of	one is required; ch	eck all that apply)		Surface S	oil Cracks (B6)		
Surface Water (A1)	_	Water-Stained I	Leaves (B9)	Drainage	Drainage Patterns (B10)		
High Water Table (A2)	-	Aquatic Fauna (	B13)	Moss Trin	Moss Trim Lines (B16)		
Saturation (A3)	_	Marl Deposits (I	B15)	Dry-Seasc	Dry-Season Water Table (C2)		
Water Marks (B1)	_	Hydrogen Sulfid	le Odor (C1)	Crayfish B	Crayfish Burrows (C8)		
Sediment Deposits (B2)	—	Oxidized Rhizospheres on Living Roots (C3)		Saturation	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	—	Presence of Reduced Iron (C4)		Stunted/S	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	_	Recent Iron Red	luction in Tilled Soils (C6)	Geomorph	Geomorphic Position (D2)		
Iron Deposits (B5)	—	Thin Muck Surface (C7)		Shallow A			
Inundation Visible on Aerial Ima		Other (Explain in Remarks)			graphic Relief (D4)		
Sparsely Vegetated Concave Su	rface (B8)			FAC-Neutr	al Test (D5)		
Field Observations: Surface Water Present?	No	Dopth (incl	hes)				
Water Table Present?	No		hes)				
Saturation Present?	No	Depth (incl	-	Wetland Hydrology P	resent? No		
(includes capillary fringe)							
Describe Recorded Data (stream	gauge, monitoring	well, aerial photo	os, previous inspections),	if available:			
Remarks:							
No indicators of wetland hydrolo	ogy were observed						
	,8,						

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

Sampling Point: CLC5004v1U

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
2				3
3				_ Species Across All Strata: (B)
4				Percent of Dominant Species
_				33.333333333
5				That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7				<u>Total % Cover of:</u> <u>Multiply by:</u>
45.0	0	= Total Cover		OBL species $\frac{0.00}{x \ 1} = \frac{0}{2}$
Sapling/Shrub Stratum (Plot Size: 15 ft)				FACW species <u>30.00</u> x 2 <u>60</u>
1. Populus balsamifera	5.00	Yes	FACW	FACU species 0.00 x 3 128
2				UPL species <u>35.00</u> x 4 <u>175</u>
3				Column Totals <u>97</u> (A) <u>363</u> (B)
4				Prevalence Index = $B/A = \frac{3.7422680}{1000}$
5		• <u> </u>		Hydrophytic Vegetation Indicators:
6		-		1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
/·	5	= Total Cover		no $3 - Prevalence Index is \leq 3.0^{1}$
Herb Stratum (Plot Size: 5 ft)	<u> </u>			4 - Morphological Adaptations <sup>1</sup> (Provide
Bromus inermis	30.00	Yes	UPL	supporting data in Remarks or on a separate sheet)
1 2. Pteridium aquilinum			_	
2	25.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5	15.00	- <u>No</u>	FACW	$^{-1}$ Indicators of hydric soil and wetland hydrology must be present, unless
4. Solidago gigantea	10.00	No	FACW	disturbed or problematic.
5. Poa pratensis	5.00	No	FACU	Definitions of Vegetation Strata:
6. Asclepias syriaca	5.00	No	UPL	_
7. Fragaria virginiana	2.00	No	FACU	<b>Tree</b> - 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				<ul> <li>Herb - All herbaeceous (non-woody) plants, regardless of size, and</li> </ul>
				woody plants less than 3.28 ft tall.
12	92	= Total Cover		<ul> <li>Woody vines - All woody vines greater than 3.28 ft in height.</li> </ul>
	<u></u>	_ = Total Cover		woody vines - All woody vines greater than 5.26 ft in height.
Woody Vine Stratum (Plot Size:)				
1				-
2				Hydrophytic Vegetation
3				Present?
4				_
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	)			
The vegetation is dominated by bracken fern and smooth brom	ıe.			

SOIL								Sampling Point: CLC5004v	
	cription: (Describe to the de	pth needed t				firm the	e absence of in	dicators.)	
Depth	Matrix Redox Features			2					
(inches)	Color (moist)	% C	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
				·					
				·					
				·	. <u></u>				
				·					
				·					
				·					
				·					
<sup>1</sup> Type: C=Cor	 ncentration, D=Depletion, RM=Re	duced Matrix, M	S=Masked Sand Gra	 ains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix	
Hydric Soil In							Indicators for	Problematic Hydric Soil <sup>3</sup> :	
Histos	ol (A1)		Polyvalue Below Surface (S8) (LRR R, MLRA 149B)			MLRA	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		Thin Dark Surface	e (S9) <b>(LRF</b>	R, MLRA	149B)	Coast Pr	airie Redox (A16)( <b>LRR K, L, R</b> )	
Black	Histic (A3)		Loamy Mucky Mi	ineral (F1)	(LRR K, L)		🗌 5 cm Mu	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydro	gen Sulfide (A4)		Loamy Gleyed M				🗌 Dark Sur	face (S7) ( <b>LRR K, M</b> )	
Stratif	ied Layers (A5)		Depleted Matrix	(F3)			Polyvalu	е Below Surface (S8) (LRR K, L)	
Deple	ted Below Dark Surface (A11)		Redox Dark Surfa	ice (F6)			Thin Dark	k Surface (S9) ( <b>LRR K, L)</b>	
Thick	Dark Surface (A12)		Depleted Dark Su	Irface (F7)	)		Iron-Mag	ganese Masses (F12) (LRR K, L, R)	
Sandy	Mucky Mineral (S1)		Redox Depressio	ns (F8)			Piedmon	t Floodplain Soils (F19) <b>(MLRA 149B)</b>	
Sandy	Gleyed Matrix (S4)						Mesic Sp	odic (TA6) <b>(MLRA 144A, 145, 149B)</b>	
Sandy	Redox (S5)						Red Pare	ent Material (F21)	
Stripp	ed Matrix (S6)						🗌 Very Sha	illow Dark Surface (TF12)	
	Surface (SZ) (LDD D MIDA 1400)						Other (e	volain in remarks)	

Dark Surface (S7) (LRR R, MLRA 149B)	Other (explain in remarks)			
Restrictive Layer (if observed):				
Туре:				
Depth (inches):	Hydric Soil Present? <u>No</u>			
Remarks:				
Soils could not be sampled due to the proximity of buried utilities; soils are assumed to be non-hydric based on the landscape position and dominant vegetation.				