W	ETLAND DETEI	RMINATION DAT	A FORM - North Central	l and Northeast Region		
SPP Project/Site:	Ci	Clearw ty/County:	/ater	2015-07-10 Sampling Date:		
Enbridge Applicant/Owner:			Minnesota State:	Sampling	CLC5004v1W Point:	
BJC/L Investigator(s):	EB		Section, Township, Range:			
	Denression			Concave	0-2%	
Landform (hillslope, terrace, etc.): LRR K				convex, none):	Slope (%): Minnesota State	
LRR K Subregion (LRR or MLRA):		Latitude	: Lo	-95.40573435 ngitude:	Datum:	
718C, Naytah Soil Map Unit Name:	waush loam, 8 to	o 15 percent slope	25	NWI Classi	fication:	
Are climatic/hydrologic conditions					Yes	
No No No Are Vegetation, Soil,	No.) cignificantly di	sturbed? Are "Normal Circu	Yes		
No No No Are Vegetation, Soil, or	r Hydrology	_ naturally proble	matic? (If needed, explain a	any answers in Remarks)		
SUMMARY OF FINDINGS - Attac	rh site man show	ving sampling noi	nt locations transects imp	ortant features etc		
		Yes				
Hydrophytic Vegetation Present?			Is the Sampled Area	,	,	
Hydric Soil Present?		Yes	within a Wetland?	۲ -	Yes	
Wetland Hydrology Present?		Yes	If yes, optional Wetlan	d Site ID:		
Remarks: (Explain alternative proc	edures here or i	 n a separate repor	t.)			
The wetland is a fresh wet meado		• •	,	d in a depression within a po	worling corridor	
The wettand is a fresh wet frieddo	w dominated by	reeu canary grass	and lake sedge. It is located	u in a depression within a pe	wernine corridor.	
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicato	rs (minimum of two required)	
Primary Indicators (minimum of or	ne is required; ch	eck all that apply)		Surface Soil 0	Cracks (B6)	
Surface Water (A1)	_	Water-Stained I	.eaves (B9)	Drainage Patt	erns (B10)	
High Water Table (A2)	_	Aquatic Fauna (Moss Trim Lir	nes (B16)	
Saturation (A3)				Dry-Season Water Table (C2)		
Water Marks (B1)	_	Hydrogen Sulfic	le Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	_	Oxidized Rhizos	pheres on Living Roots (C3)	Saturation Vis	ible on Aerial Imagery (C9)	
Drift Deposits (B3)	_	Presence of Rec	luced Iron (C4)	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	_	Recent Iron Red	uction in Tilled Soils (C6)	yes Geomorphic Position (D2)		
Iron Deposits (B5)	_	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Image	ery (B7)	Other (Explain in Remarks)			phic Relief (D4)	
Sparsely Vegetated Concave Surfa	ace (B8)			yes FAC-Neutral T	est (D5)	
Field Observations:	No		``````````````````````````````````````			
Surface Water Present?	<u>No</u> No	Depth (incl				
Water Table Present? Saturation Present?	No	Depth (incl Depth (incl	nes)	Wetland Hydrology Pres	ent? Yes	
(includes capillary fringe)		Depth (incl	ies)	wettand frydrology Fres	<u></u>	
Describe Recorded Data (stream ga	auge, monitoring	well, aerial photo	s, previous inspections), if a	available:		
		,, p	-,,			
Pomarka						
Remarks:	ah tha watland					
An ephemeral stream flows throug	gii the wetland.					

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5004v...

	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
Z				2
3				Species Across All Strata: (B)
4				Percent of Dominant Species
				100
5				That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cover		OBL species <u>35.00</u> x 1 <u>35</u>
Sapling/Shrub Stratum (Plot Size:)				FACW species <u>65.00</u> x 2 <u>130</u>
1				FACU species 0.00 x 3 0
2				UPL species 0.00 x 4 0
3				Column Totals 100 (A) 165 (B)
4.	-			Prevalence Index = $B/A = \frac{1.65}{2}$
5				
				Hydrophytic Vegetation Indicators:
6				_ yes1 - Rapid Test for Hydrophytic Vegetation
7				<u>yes</u> 2 - Dominance Test is > 50%
	0	= Total Cover		<u>Yes</u> 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Phalaris arundinacea	60.00	Yes	FACW	- supporting data in kemarks or on a separate sneet)
2. Carex lacustris	30.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Scutellaria galericulata	5.00	No	OBL	
4. Solidago gigantea	5.00	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8				height (DBH), regardless of height.
9				
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				_
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12				-
	100	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)				
1				
2.				Hydrophytic
3.				Vegetation
				Present?
4	0			—
		=Total Cover		
Remarks: (include photo numbers here or on a separate sheet				
The wetland sample point is dominated by reed canary grass an	nd lake sedge.			

SOIL								Sampling Point: CLC5004v	
	ription: (Describe to the d	epth needed			or or con	firm the	e absence of inc	licators.)	
Depth	Matrix		Redox I	eatures		2			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
				·					
¹ Type: C=Con	centration, D=Depletion, RM=Re	educed Matrix, I	VS=Masked Sand Gra	ains.				² Location: PL=Pore Lining, M=Matrix	
Hydric Soil Ind	licators:						Indicators for	Problematic Hydric Soil ³ :	
Histose	ol (A1)		Polyvalue Below 149B)	Surface (S	8) (LRR R,	MLRA	🗌 2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)	
Histic I	Epipedon (A2)		Thin Dark Surface (S9) (LRR R, MLRA 149B)		Coast Prairie Redox (A16)(LRR K, L, R)				
Black H	listic (A3)		Loamy Mucky Mi	ineral (F1)	(LRR K, L)		🗌 5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)	
Hydrog	gen Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surf	ace (S7) (LRR K, M)	
Stratifi	ed Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)	
Deplet	ed Below Dark Surface (A11)		Redox Dark Surface (F6)				Thin Dark Surface (S9) (LRR K, L)		
Thick [Dark Surface (A12)		Depleted Dark Su	ırface (F7)			Iron-Mag	anese Masses (F12) (LRR K, L, R)	
Sandy	Mucky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)	
Sandy	Gleyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)	
Sandy	Redox (S5)						Red Pare	nt Material (F21)	
Strippe	ed Matrix (S6)						Very Shal	low Dark Surface (TF12)	
Dark S	urface (S7) (LRR R, MLRA 149B)						✓ Other (ex	plain in remarks)	
Restrictive Lay	ver (if observed):								

____ Туре: ____ Hydric Soil Present? Yes Depth (inches): ____ Remarks: The soils could not be sampled due to the proximity of buried utilities. Soils are assumed hydric based on the landscape position and dominance of hydrophytic vegetation.