WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Cl City/County:	earwater	2015-07-0 Sampling Date:	8
Enbridge Applicant/Owner:	_	Minnesota State:	CL004e1W Sampling Point:	
JRT/KRG			Sampling Point	
Investigator(s):		Section, Township, Range: _		
Depres Landform (hillslope, terrace, etc.):	ssion		onvex, none): Slope (%):	0-2
Subregion (LRR or MLRA):	Lati	47.716885702729 tude: Lon	-95.56009506 Minne gitude: Datum:	sota State
Soil Map Unit Name:			NWI Classification:	
Are climatic/hydrologic conditions on the	site typical for this time	e of year? (if no explain in Remar	·ks)·	
. , .	,,	, , , ,	· ——	
Are Vegetation No		:ly disturbed? Are "Normal Circu	mstances" present?	
No No Are Vegetation, Soil, or Hydro	No plogy naturally pro	oblematic? (If needed, explain a	ny answers in Remarks)	
SUMMARY OF FINDINGS - Attach site		point locations, transects, impo	rtant features, etc.	
Hydrophytic Vegetation Present?	Yes ——	Is the Sampled Area		
Hydric Soil Present?	Yes	within a Wetland?	Yes	
Trydric 30ii 1 resent:	Yes		L Sito ID:	
Wetland Hydrology Present?		If yes, optional Wetland		
Remarks: (Explain alternative procedure	·	•		
The wetland is located in a road ditch ar	id dominated by lake se	dge and reed canary grass.		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of to	wo required)
Primary Indicators (minimum of one is re	quired; check all that ap	oply)	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Sta	ined Leaves (B9)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fa	una (B13)	Moss Trim Lines (B16)	
yes Saturation (A3)	Marl Depo	osits (B15)	Dry-Season Water Table (C2)	
—— Water Marks (B1)	Hydrogen	Sulfide Odor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized R	thizospheres on Living Roots (C3)	Saturation Visible on Aerial Image	ry (C9)
Drift Deposits (B3)		of Reduced Iron (C4)	Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)		n Reduction in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)		Surface (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Exp	plain in Remarks)	Microtopographic Relief (D4) yes FAC-Neutral Test (D5)	
Sparsely Vegetated Concave Surface (B8) Field Observations:			FAC-Neutral Test (D5)	
Surface Water Present?	No Depth	(inches)		
Water Table Present?	•	(inches)		
Saturation Present?		(inches) 0	Wetland Hydrology Present?	Yes
(includes capillary fringe)		(mones)	Treatment, are right resemble	
Describe Recorded Data (stream gauge, r	monitoring well, aerial p	hotos, previous inspections), if a	vailable:	
Remarks:				
The wetland is saturated at the surface.				

VEGETATION - Use scientific names of plants. Sampling Point: CL004e1W						
-	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: 3 (A)		
2				Total Number of Dominant		
				3		
3	-			Species Across All Strata: (B)		
4	-			Percent of Dominant Species		
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>45.00</u> x 1 <u>45</u>		
Sapling/Shrub Stratum (Plot Size: 15 ft)				FACW species <u>60.00</u> x 2 <u>120</u>		
1. Salix discolor	5.00	Yes	FACW	FACU species		
2		_	_	UPL species <u>0.00</u> x 4 <u>0</u>		
3			_	Column Totals (A) (B)		
4			_	Prevalence Index = B/A = 1.5714285		
5			_	Hydrophytic Vegetation Indicators:		
6		_	_	1 - Rapid Test for Hydrophytic Vegetation		
7			_	<u>yes</u> 2 - Dominance Test is > 50%		
	5	_ = Total Cover		<u>yes</u> 3 - Prevalence Index is $\leq 3.0^{1}$		
<u>Herb Stratum</u> (Plot Size: <u>5 ft</u>)				4 - Morphological Adaptations ¹ (Provide		
1. Carex lacustris	40.00	Yes	OBL	supporting data in Remarks or on a separate sheet)		
2. Phalaris arundinacea	40.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
3. Poa palustris	10.00	No No	FACW	Indicators of hydric soil and wetland hydrology must be present, unless		
4. Scirpus atrovirens	5.00	No	OBL	disturbed or problematic.		
5. Anemone canadensis	5.00	No	FACW	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			_	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	<u></u>			woody plants less than 3.28 ft tall.		
	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				<u> </u>		
	0	=Total Cover				
Remarks: (include photo numbers here or on a separate sheet	t.)			•		
The wetland is dominated by reed canary grass and lake sedge	!.					

SOIL								Sampling Point: CL004e1W
Profile Description	: (Describe to the de	pth needed to	o document the	e indicato	or or cor	firm the	absence of inc	dicators.)
Depth	Matrix	Redox Features						
(inches)	Color (moist)	% Co	olor (moist)	% 	Type ¹	Loc ²	Texture	Remarks
		· ·						
¹ Type: C=Concentratio	on, D=Depletion, RM=Re	duced Matrix, MS	S=Masked Sand G	rains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:			Dobaralus Dolou	, Curfoco IC	0\ /I DD D	MIDA	Indicators for	Problematic Hydric Soil ³ :
Histosol (A1)			Polyvalue Below 149B)	v surrace (s	o) (LKK K,	IVILKA	2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)
Histic Epipedon	(A2)		Thin Dark Surfac	ce (S9) (LRF	R, MLRA	149B)	Coast Pra	airie Redox (A16)(LRR K, L, R)
Black Histic (A3)		Loamy Mucky M	1ineral (F1)	(LRR K, L)		5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfic	de (A4)		Loamy Gleyed M	∕latrix (F2)			☐ Dark Surf	face (S7) (LRR K, M)
Stratified Layer	s (A5)		Depleted Matrix	к (F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
Depleted Below	v Dark Surface (A11)		Redox Dark Surf	face (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Dark Surfa	ace (A12)		Depleted Dark S	Surface (F7)			☐ Iron-Mag	ganese Masses (F12) (LRR K, L, R)
Sandy Mucky N	lineral (S1)		Redox Depression	ons (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed N	Natrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S	5)						Red Pare	ent Material (F21)
Stripped Matrix	(S6)						Very Sha	Illow Dark Surface (TF12)
Dark Surface (S	7) (LRR R, MLRA 149B)						✓ Other (ex	xplain in remarks)
Restrictive Layer (if obs	served):							
Туре:						Н	ydric Soil Present?	yes
Depth (inches	5):						,	·
Remarks:								

Soils were not sampled due to the location in a roadside ditch but are assumed hydric based on the dominance of wetland vegetation and presence of wetland hydrology.