WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	City	Clearwate	r	Sampling Date:	2015-07-08	
Enbridge			Minnesota		CL006g1W	
Applicant/Owner:ACM/LEB			State:	Sampling Point:		
Investigator(s):		Sect	tion, Township, Range: _			
Landform (hillslope, terrace, etc.):	ession		Local Relief (concave, co	Conca onvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA):		47 Latitude:	7.7169137401 Lon	-95.54737888	Minnesota State	
180						
Soil Map Unit Name:				NWI Classificatio	on: Yes	
Are climatic/hydrologic conditions on the	he site typical	for this time of year	? (if no, explain in Remar	ks):	——————————————————————————————————————	
Are Vegetation No	No lydrology	_ significantly distur	bed? Are "Normal Circur	Yes mstances" present?		
Are Vegetation No No No No Hyd	No					
SUMMARY OF FINDINGS - Attach sit	te map showi	ng sampling point lo	cations, transects, impo	rtant features. etc.		
		es				
Hydrophytic Vegetation Present?			Is the Sampled Area	Vos		
Hydric Soil Present?	Y -	es 	within a Wetland?	Yes ——	-	
Wetland Hydrology Present?	Y	es	If yes, optional Wetland Site ID:			
Remarks: (Explain alternative procedure	res here or in	a separate report.)				
The wetland is a fresh wet meadow lo	cated betwee	n a crop field and a r	oadside ditch and domin	nated by reed canary grass, lake s	edge, and fowl bluegr	
		•		, , , , ,		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
Primary Indicators (minimum of one is	required; che	ck all that apply)		Surface Soil Cracks (B6)	
yes Surface Water (A1)	_	Water-Stained Leave	es (B9)	Drainage Patterns (E	10)	
yes High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trim Lines (B1	5)	
yes Saturation (A3) Marl Deposi				Dry-Season Water Ta	Dry-Season Water Table (C2)	
—— Water Marks (B1)	Water Marks (B1) Hydrogen St		lor (C1)	Crayfish Burrows (C8	Crayfish Burrows (C8)	
Sediment Deposits (B2)			es on Living Roots (C3)	Saturation Visible on		
	Drift Deposits (B3) Presence of			Stunted/Stressed Pla		
			on in Tilled Soils (C6)		Geomorphic Position (D2)	
	Iron Deposits (B5) Thin Muck Surfa			Shallow Aquitard (D3		
	Inundation Visible on Aerial Imagery (B7) Other (Explain		marks)	Microtopographic Re	` '	
Sparsely Vegetated Concave Surface (B	88)			yes FAC-Neutral Test (D5)	
Field Observations:	Voc	5 11 (* 1)	1			
Surface Water Present?	Yes	Depth (inches)				
Water Table Present?	Yes	Depth (inches)			Voc	
Saturation Present?	<u>Yes</u>	Depth (inches)	<u>u</u>	Wetland Hydrology Present?	<u>Yes</u>	
(includes capillary fringe) Describe Recorded Data (stream gauge	monitoring	well serial photos p	revious inspections) if a	vailable:		
Describe Recorded Data (stream gauge	, monitoring (well, aeriai priotos, p	revious inspections,, ir av	valiable.		
Remarks:						
The wetland is located in a flooded dite	ch.					

VEGETATION - Use scientific names of plants.

	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		
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 x 1		
Sapling/Shrub Stratum (Plot Size: 15 ft)				FACW species x 2		
1. Salix discolor	10.00	Yes	FACW	FACU species x 3		
2		_		VPL species x 40		
3				(A) (B)		
4		_	_	Prevalence Index = B/A =		
5	-	_		Hydrophytic Vegetation Indicators:		
6	-	_		1 - Rapid Test for Hydrophytic Vegetation		
7		_	_	2 - Dominance Test is > 50%		
	10	_ = Total Cover		3 - Prevalence Index is $\leq 3.0^1$		
Herb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations 1 (Provide		
1. Carex lacustris	50.00	Yes	OBL	supporting data in Remarks or on a separate sheet)		
2. Phalaris arundinacea	30.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
3. Poa palustris	15.00	No	FACW			
4. Carex pellita	5.00	No	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
5. Carex granularis	2.00	No	FACW	Definitions of Vegetation Strata:		
6. Equisetum arvense	2.00	No	FAC	_		
7. Solidago gigantea	2.00	No	FACW	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast		
8. Melilotus officinalis	2.00	No	FACU	height (DBH), regardless of height.		
9. Phleum pratense	2.00	No	FACU	_ 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.				woody plants less than 3.28 ft tall.		
	110	= Total Cover	_	Woody vines - All woody vines greater than 3.28 ft in height.		
Woody Vine Stratum (Plot Size:)						
1.						
2.				Hydrophytic		
3.				Vegetation		
4.				Present?		
T	0	=Total Cover		_		
Remarks: (include photo numbers here or on a separate sheet	1			<u> </u>		
The vegetation is dominated by lake sedge and reed canary gra	•					
The regetation is dominated by take seeds and rece canaly gre						

Sampling Point: CL006g1W

SOIL								Sampling Point: CL006g1W
Profile De	escription: (Describe to the c	depth needed t	o document th	e indicato	or or con	firm the	absence of inc	dicators.)
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	% (Color (moist)	% 	Type ¹	Loc ²	Texture	Remarks
¹ Type: C=C	oncentration, D=Depletion, RM=R	educed Matrix, N	1S=Masked Sand G	rains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soil ³ :
☐ Hist	osol (A1)		Polyvalue Belov 149B)	v Surface (S	8) (LRR R,	MLRA	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
☐ Hist	ic Epipedon (A2)		Thin Dark Surfa	ce (S9) (LRR	R, MLRA	149B)	Coast Pra	airie Redox (A16)(LRR K, L, R)
☐ Blac	k Histic (A3)		Loamy Mucky M	/lineral (F1)	(LRR K, L)		5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
☐ Hyd	rogen Sulfide (A4)		Loamy Gleyed N	∕latrix (F2)			Dark Surf	face (S7) (LRR K, M)
Stra	tified Layers (A5)		Depleted Matrix	x (F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
☐ Dep	leted Below Dark Surface (A11)		Redox Dark Surf	face (F6)			Thin Dark	Surface (S9) (LRR K, L)
☐ Thic	k Dark Surface (A12)		Depleted Dark S	Surface (F7)			☐ Iron-Mag	ganese Masses (F12) (LRR K, L, R)
San	dy Mucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
San	dy Gleyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
San	dy Redox (S5)						Red Pare	ent Material (F21)
	oped Matrix (S6)							llow Dark Surface (TF12)
☐ Dar	k Surface (S7) (LRR R, MLRA 149B))					Other (ex	xplain in remarks)
Restrictive	Layer (if observed):		<u> </u>					
Type:					j			Vos
De	epth (inches):					Hy 	dric Soil Present?	163
Remarks:								

Soils were not sampled due to the location in a roadside ditch but are assumed hydric based on the landscape position and dominance of hydrophytic vegetation.