WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Citv/(Clearwate County:	r	Sampling Date:	2015-07-09
Enbridge			Minnesota		CL005iW
Applicant/Owner:LEB/ACM			State:	Sampling Point:	
Investigator(s):		Sec	tion, Township, Range: _		
depre Landform (hillslope, terrace, etc.):	ession		Local Relief (concave, c	CC onvex, none):	0-2 Slope (%):
Subregion (LRR or MLRA):		47	7.7167357923	-95.55748293 ngitude: Dato	Minnesota State
63				ngitude Dati	JIII
Soil Map Unit Name:				_ NWI Classificatio	n:
Are climatic/hydrologic conditions on the	ne site typical fo	or this time of year	? (if no, explain in Rema	rks):	Yes
Are Vegetation No No No , or H	No ydrology	significantly distur	bed? Are "Normal Circu	Yes umstances" present?	
Are Vegetation No No No No Hyd					
SUMMARY OF FINDINGS - Attach sit	te map showing	sampling point lo	ocations, transects, impo	ortant features, etc.	
Lively and putting No grant at the December 2	Yes	;	le the Complet Avec		
Hydrophytic Vegetation Present?	— Yes	_ i	Is the Sampled Area	Yes	
Hydric Soil Present?		<u> </u>	within a Wetland?		
Wetland Hydrology Present?	Yes	_	If yes, optional Wetland	d Site ID:	
Remarks: (Explain alternative procedu	res here or in a	separate report.)			
The wetland is a wet meadow basin in	a grassland are	a.			
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indicators (mir	nimum of two required)
Primary Indicators (minimum of one is	required: check	all that annly)		Surface Soil Cracks (
Surface Water (A1)		. Water-Stained Leave	es (B9)	Drainage Patterns (B	
High Water Table (A2)		. Aquatic Fauna (B13)		Moss Trim Lines (B10	,
yes Saturation (A3)		Marl Deposits (B15)		Dry-Season Water Ta	
Water Marks (B1)		. Hydrogen Sulfide Oc		Crayfish Burrows (C8	· ·
Sediment Deposits (B2)		Oxidized Rhizospher	res on Living Roots (C3)	Saturation Visible on	Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced	d Iron (C4)	Stunted/Stressed Pla	nts (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction	on in Tilled Soils (C6)	yes Geomorphic Position	(D2)
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B	7)	Other (Explain in Re	marks)	Microtopographic Re	lief (D4)
Sparsely Vegetated Concave Surface (B	8)			yes FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	No	Depth (inches)	·		
Water Table Present?	Yes	Depth (inches)	14		
Saturation Present?	<u>Yes</u>	Depth (inches)	6	Wetland Hydrology Present?	<u>Yes</u>
(includes capillary fringe)					
Describe Recorded Data (stream gauge	, monitoring we	ell, aerial photos, p	revious inspections), if a	vailable:	
Remarks:					
Saturation is present at a depth of 6 in	ches.				

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: $\frac{3}{}$ (A)		
2				Total Number of Dominant		
				3		
3				Species Across All Strata: (B)		
4	·			Percent of Dominant Species		
5				100 That Are OBL, FACW, or FAC:(A/B)		
6			_	Prevalence Index worksheet:		
7			_	Total % Cover of: Multiply by:		
	0	= Total Cover		OBL species 5.00 x 1 5		
Sapling/Shrub Stratum (Plot Size: 15 ft)		_		FACW species 94.00 x 2 188		
1. Salix discolor	15.00	Yes	FACW	FACU species 0.00 x 3 108		
2. Salix petiolaris	10.00	Yes	FACW	UPL species 0.00 x 4 0		
3				x ·		
			_	Column Totals $\frac{126}{126}$ (A) $\frac{301}{126}$ (B) Prevalence Index = B/A = $\frac{2.38888888}{126}$		
4	·					
5				Hydrophytic Vegetation Indicators:		
6				yes 1 - Rapid Test for Hydrophytic Vegetation		
7	25	_		yes 2 - Dominance Test is > 50%		
r #+	25	_ = Total Cover		<u>yes</u> 3 - Prevalence Index is $\leq 3.0^1$		
Herb Stratum (Plot Size: 5 ft) 1 Phalaris arundinacea				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	50.00	Yes	FACW	-		
2. Agrostis gigantea	15.00	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
3. Poa pratensis	15.00	No	FACU	1 Indicators of hydric soil and wetland hydrology must be present, unless		
4. Solidago canadensis	10.00	No	FACU	disturbed or problematic.		
5. Carex stipata	5.00	<u>No</u>	OBL	Definitions of Vegetation Strata:		
6. Juncus dudleyi	2.00	No No	FACW	_		
7. Solidago gigantea	2.00	No No	FACW	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.		
8. Taraxacum officinale	2.00	<u>No</u>	FACU	neight (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				woody plants less than 3.28 ft tall.		
	101	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.		
Woody Vine Stratum (Plot Size:)						
1.						
2.	<u> </u>			Hydrophytic		
3.				Vegetation Present?		
4						
*	0	=Total Cover]		
Remarks: (include photo numbers here or on a separate shee						
The vegetation is dominated by reed canary grass.	zt.)					
The vegetation is dominated by reed canaly grass.						

Sampling Point: CL005iW

SOIL							Sampling Point: CL005i	W
Profile Descr	ription: (Describe to the	depth n	eeded to document the	indicat	or or co	nfirm th	he absence of indicators.)	
Depth	Matrix		Redox F	eature				
(inches) 0-8	Color (moist) 10YR 2 1	% _ 100	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
8-24	10YR 3 1	93	93 10YR 4 6		С	М	scl Very fine	
			10YR 5 2	2	D	M	scl	
	_							
			-					
			-					
					_			
¹ Type: C=Conc	 entration, D=Depletion, RM=	Reduced I	– ————————————————————————————————————	ains.	-		² Location: PL=Pore Lining, M:	=Matrix
Hydric Soil Indi	icators:						Indicators for Problematic Hydric Soil ³ :	
Histosol	I (A1)		Polyvalue Below :	Surface (S8) (LRR R	, MLRA	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic E	pipedon (A2)		Thin Dark Surface	(S9) (LR	R R, MLRA	A 149B)	Coast Prairie Redox (A16)(LRR K, L, R)	
Black Hi	istic (A3)		Loamy Mucky Mi	neral (F1) (LRR K, L	.)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
☐ Hydroge	en Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)			Dark Surface (S7) (LRR K, M)	
Stratifie	ed Layers (A5)		Depleted Matrix	(F3)			Polyvalue Below Surface (S8) (LRR K, L)	
☐ Deplete	ed Below Dark Surface (A11)		Redox Dark Surfa	ce (F6)			Thin Dark Surface (S9) (LRR K, L)	
Thick Da	ark Surface (A12)		Depleted Dark Su	rface (F7	7)		Iron-Maganese Masses (F12) (LRR K, L, R)	
Sandy N	Mucky Mineral (S1)		Redox Depression	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)	
Sandy G	Gleyed Matrix (S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
Sandy R	Redox (S5)						Red Parent Material (F21)	
Stripped	d Matrix (S6)						Very Shallow Dark Surface (TF12)	
☐ Dark Su	rface (S7) (LRR R, MLRA 149	3)					Other (explain in remarks)	
Restrictive Laye	er (if observed):							
Туре:						1	Hydric Soil Present? Yes	
Depth	ı (inches):					'		

Remarks:

The soils are clay loam over very fine sandy clay loam; the profile meets hydric soil indicator F6.