WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Clearwate City/County:	er	2015-07-10 Sampling Date:		
Enbridge	_ = ===================================	Minnesota	CLC50	004u3W	
Applicant/Owner:		State:	Sampling Point:		
Investigator(s):	Sec	tion, Township, Range:			
depressi Landform (hillslope, terrace, etc.):	on	Local Relief (concave, co	CC nvex, none): Slope	0-2 : (%):	
	4:		-95.40686306 M	linnesota State	
Subregion (LRR or MLRA):	Latitude:	Long		 S1B	
Soil Map Unit Name:			NWI Classification:		
Are climatic/hydrologic conditions on the s	ite typical for this time of year	? (if no, explain in Remark	Yes		
Are Vegetation No	No significantly distu	rhed? Are "Normal Circum	Yes		
No No	No				
Are Vegetation, Soil, or Hydrol	ogy naturally problemat	ic? (If needed, explain an	y answers in Remarks)		
SUMMARY OF FINDINGS - Attach site n	nan showing sampling point l	ocations transects imnor	tant features, etc.		
Attachistic ii	Yes	Turisects, impor	tuite reactures, etc.		
Hydrophytic Vegetation Present?		Is the Sampled Area	v		
Hydric Soil Present?	Yes ——	within a Wetland?	Yes		
Wetland Hydrology Present?	Yes	If yes, optional Wetland	Site ID:		
Remarks: (Explain alternative procedures	here or in a separate report.)	1			
The wetland is an alder thicket communit		olex surrounded by mesic	hardwood forest.		
	,	,			
LIVERGLOCY					
HYDROLOGY			Coopedon Hadioptons (minimum	of turn an arriand	
Wetland Hydrology Indicators:			Secondary Indicators (minimum	i oi two required)	
Primary Indicators (minimum of one is req		()	Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leav		Drainage Patterns (B10)		
yes High Water Table (A2) yes Saturation (A3)	Aquatic Fauna (B13		Moss Trim Lines (B16)	,	
Water Marks (B1)	Marl Deposits (B15)		Dry-Season Water Table (C2 Crayfish Burrows (C8)	.)	
Sediment Deposits (B2)		res on Living Roots (C3)	Saturation Visible on Aerial II	mageny (C9)	
Drift Deposits (B3)	Presence of Reduce		Stunted/Stressed Plants (D1)	• ,	
Algal Mat or Crust (B4)			yes Geomorphic Position (D2)	'	
Iron Deposits (B5)					
Inundation Visible on Aerial Imagery (B7)			Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		,	yes FAC-Neutral Test (D5)	,	
Field Observations:			· · · · · · · · · · · · · · · · · · ·		
Surface Water Present?	No Depth (inches) 			
Water Table Present?	Yes Depth (inches				
Saturation Present?	Yes Depth (inches) <u>0</u>	Wetland Hydrology Present?	<u>Yes</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, p	revious inspections), if av	ailable:		
Remarks:					
A shallow water table and surface saturati	on are present.				

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5004u...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size:)	% 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				100 That Are OBL, FACW, or FAC:(A/B)
6	-			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 70.00 x 1 70
Sapling/Shrub Stratum (Plot Size: 15 ft)		_		FACW species 105.00 x 2 210
1. Alnus incana	70.00	Yes	FACW	FACU species 0.00 x 3 20
2. Larix laricina	10.00	No	FACW	UPL species 0.00 x 4 0
3.				Column Totals 180 (A) 300 (B)
4	-		_	Prevalence Index = B/A = 1.6666666
5.		_	_	
5.		_	_	Hydrophytic Vegetation Indicators:
5.			_	yes 1 - Rapid Test for Hydrophytic Vegetation
7	80		_	$\frac{\text{yes}}{\text{yes}}$ 2 - Dominance Test is > 50% $\frac{\text{yes}}{\text{yes}}$ 3 - Prevalence Index is ≤ 3.0 ¹
5 ft	80	_ = Total Cover		1
Herb Stratum (Plot Size: 5 ft) 1. Carex lacustris	55.00	W	0.01	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Equisetum pratense	55.00	Yes Yes	OBL	-
2. Scutellaria galericulata	20.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Rubus idaeus	10.00	_ No	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless
4	5.00	_ No	FACU	disturbed or problematic.
3	5.00	<u>No</u>	FACW	_ Definitions of Vegetation Strata:
6. Caltha palustris	5.00	No No	OBL	-
7	•			Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
8	•			-
9	· .	<u> </u>		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.
	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 shee				
The wetland sample point is dominated by speckled alder, lake	•	ow horsetail.		
The frequency administration by openines under his	ie seuge, and meda	ow norsetam		

SOIL								Sampling Point: CLC5004u
Profile D	escription: (Describe to the	depth ne	eded to document the	indicat	or or cor	ifirm th	e absence of ind	licators.)
Depth	Matrix		Redox F	Features		-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 2 2	_ 100					<u>P</u>	
12-24	10YR 2 2	_ 100		·			<u>MP</u>	
				·				
				·				
¹ Type: C=	Concentration, D=Depletion, RM=	Reduced N	latrix, MS=Masked Sand Gra	ains.				² Location: PL=Pore Lining, M=Matrix
Hydric Soi	il Indicators:		Polyvaluo Polovy	Surface (9	50\ /I DD D	MIDA	Indicators for F	Problematic Hydric Soil ³ :
✓ His	stosol (A1)		Polyvalue Below 149B)	Surrace (S	oo) (LKK K,	IVILKA	2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)
☐ His	stic Epipedon (A2)		Thin Dark Surface	e (S9) (LRI	R R, MLRA	149B)	Coast Pra	irie Redox (A16)(LRR K, L, R)
☐ Bla	ack Histic (A3)		Loamy Mucky Mi	neral (F1)	(LRR K, L)		5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)
□ ну	drogen Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surfa	ace (S7) (LRR K, M)
Str	ratified Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)
☐ De	pleted Below Dark Surface (A11)		Redox Dark Surfa	ice (F6)			Thin Dark	Surface (S9) (LRR K, L)
☐ Thi	ick Dark Surface (A12)		Depleted Dark Su	ırface (F7)		☐ Iron-Maga	anese Masses (F12) (LRR K, L, R)
☐ Sai	ndy Mucky Mineral (S1)		Redox Depression	ns (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
☐ Sai	ndy Gleyed Matrix (S4)						Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
☐ Sai	ndy Redox (S5)						Red Parer	nt Material (F21)
☐ Str	ipped Matrix (S6)						Very Shall	low Dark Surface (TF12)
☐ Da	rk Surface (S7) (LRR R, MLRA 149	3)					Other (ex	plain in remarks)
Restrictive	e Layer (if observed):	[
Type:								Vos

Depth (inches):

Organic soil was observed throughout the profile.

Remarks:

Hydric Soil Present? Yes