WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	С	Clearwate ity/County:	r	2015-07-10 Sampling Date:			
Enbridge Applicant/Owner:			Minnesota State:	CLC5005i1W			
BJC/ Investigator(s):	LEB	Sec	tion, Township, Range:				
Landform (hillslope, terrace, etc.):	Depression :		Local Relief (concave,	Conca convex, none):	0-2% Slope (%):		
Subregion (LRR or MLRA):		Latitude:	7.6669361396 Lo	-95.40579713 ongitude: Dat	um:		
Soil Map Unit Name: 718C, Nayta	hwaush loam, 8 t	to 15 percent slopes		NWI Classification	on:		
Are climatic/hydrologic conditions	s on the site typic	cal for this time of year	? (if no, explain in Rema	arks):	Yes		
Are Vegetation No No No	or Hydrology	0	thad? Are "Normal Circ	Yes			
No No	No						
Are Vegetation, Soil,	or Hydrology	_ naturally problemat	ic? (If needed, explain	any answers in Remarks)			
STIMMARY OF FINIDINGS A++-	ach cita man cha	wing compling point le	estions transacts imp	portant foatures, etc			
SUMMARY OF FINDINGS - Atta	ich site map snov	Yes	transects, imp	ortant reatures, etc.			
Hydrophytic Vegetation Present?			Is the Sampled Area				
Hydric Soil Present?		Yes	within a Wetland?	Yes			
		Yes	If yes, optional Wetlar	ad Site ID:	_		
Wetland Hydrology Present?			ii yes, optional wetiai				
Remarks: (Explain alternative pro				ed in a depression within a powerli			
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)		
Primary Indicators (minimum of o	one is required: ch	neck all that apply)		Surface Soil Cracks	(B6)		
Surface Water (A1)	<u></u>	Water-Stained Leav	es (B9)	Drainage Patterns (E			
High Water Table (A2) Aquatic Fa			. ,		Moss Trim Lines (B16)		
		Marl Deposits (B15)		Dry-Season Water Table (C2)			
·		Hydrogen Sulfide Oo		Crayfish Burrows (C8)			
Sediment Deposits (B2)	, ,		res on Living Roots (C3)	Saturation Visible or	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)			-		Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)			on in Tilled Soils (C6)	1/05	yes Geomorphic Position (D2)		
Iron Deposits (B5)	_	Thin Muck Surface (C7)	Shallow Aquitard (D:	Shallow Aquitard (D3)		
		Other (Explain in Re	marks)	Microtopographic Re	elief (D4)		
Sparsely Vegetated Concave Sur	face (B8)			yes FAC-Neutral Test (D5	5)		
Field Observations:							
Surface Water Present?	<u>No</u>	Depth (inches)					
Water Table Present?	<u>No</u>	Depth (inches)					
Saturation Present?	No	Depth (inches)		Wetland Hydrology Present?	<u>Yes</u>		
(includes capillary fringe)							
Describe Recorded Data (stream g	gauge, monitoring	g well, aerial photos, p	revious inspections), if	available:			
Remarks:							
The wetland shows signs of perio	dic inundation.						
1							

VEGETATION - Use scientific names of plants.

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant 2 Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: (A/B) FACW species (30.00 x 1 30 0) FACU species (70.00 x 2 140 0) FACU species (0.00 x 3 0) UPL species (0.00 x 4 0) Column Totals (100 (A) 170 (B) Prevalence Index = B/A = 1.7 Hydrophytic Vegetation Indicators: yes (1 - Rapid Test for Hydrophytic Vegetation (yes) (2 - Dominance Test is > 50% yes (3 - Prevalence Index is ≤ 3.0¹ — (4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) FACW Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata:
Total Number of Dominant 2 Species Across All Strata:
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Species Across All Strata:
Percent of Dominant Species That Are OBL, FACW, or FAC:
That Are OBL, FACW, or FAC:
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Prevalence Index worksheet: Total % Cover of:
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UPL species Column Totals Prevalence Index = B/A = 1.7 Hydrophytic Vegetation Indicators: yes 1 - Rapid Test for Hydrophytic Vegetation yes 2 - Dominance Test is > 50% yes 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) OBL Problematic Hydrophytic Vegetation¹ (Explain) FACW Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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yes 1 - Rapid Test for Hydrophytic Vegetation yes 2 - Dominance Test is > 50% yes 3 - Prevalence Index is \le 3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) OBL Problematic Hydrophytic Vegetation ¹ (Explain) FACW Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
yes 2 - Dominance Test is > 50% yes 3 - Prevalence Index is ≤ 3.0¹ ———————————————————————————————————
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FACW disturbed or problematic.
Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater tha
or equal to 3.28 ft (1 m) tall.
Herb - All herbaeceous (non-woody) plants, regardless of size, and
woody plants less than 3.28 ft tall.
Cover Woody vines - All woody vines greater than 3.28 ft in height.
Hydrophytic
Vegetation
Present?
over
ovei

Sampling Point: CLC5005i1W

SOIL							Sampling Point: CLC5005i1
Profile Description: (Describe to the	e depth neede	d to document the	e indicato	r or con	firm the	absence of ind	licators.)
Depth Matrix		Redox	Features				
(inches) Color (moist)	% 	Color (moist)	% 	Type ¹	Loc ²	Texture	Remarks
			_				
			_				
			_				
	_		_				
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix	, MS=Masked Sand Gi	rains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Del el ente	C (C)	\		Indicators for I	Problematic Hydric Soil ³ :
Histosol (A1)	[Polyvalue Below 149B)	Surrace (Se	3) (LKK K,	IVILKA	2 cm Mud	ck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	[Thin Dark Surfac	ce (S9) (LRR	R, MLRA	149B)	Coast Pra	irie Redox (A16)(LRR K, L, R)
Black Histic (A3)	[Loamy Mucky M	lineral (F1) ((LRR K, L)		5 cm Mud	cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	[Loamy Gleyed M	1atrix (F2)			Dark Surf	ace (S7) (LRR K, M)
Stratified Layers (A5)	[Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	[Redox Dark Surf	ace (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Dark Surface (A12)	[Depleted Dark S	urface (F7)			☐ Iron-Mag	anese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	[Redox Depression	ons (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)
Stripped Matrix (S6)						Very Shal	low Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149	9B)					✓ Other (ex	plain in remarks)
Restrictive Layer (if observed):							
Туре:					H	ydric Soil Present?	Yes
Depth (inches):						,	
Remarks:							

The soils could not be sampled due to the proximity of underground utilities. Soils are assumed hydric based on the landscape position and dominance of hydrophytic vegetation.