WETLA	ND DETERMINATION D	OATA FORM - North Central	and Northeast Region			
SPP Project/Site:	Clea City/County:	arwater	2015-07-10 Sampling Date:			
Enbridge Applicant/Owner:		Minnesota State:	Sampling	CLC5005h1U Point:		
ACM/LEB Investigator(s):		_ Section, Township, Range: _				
rise Landform (hillslope, terrace, etc.):			Conve onvex, none):	Slope (%):		
Subregion (LRR or MLRA):	Latitu	47.6666686730 de: Lor	-95.40635461 ngitude:	Minnesota State Datum:		
	loam, 8 to 15 percent slo	opes		PSS1C		
Are climatic/hydrologic conditions on the				Yes		
Are Vegetation, Soil, or Hyd						
Are Vegetation, Soil, or Hydro	No ology naturally prob	plematic? (If needed, explain a	ny answers in Remarks)			
SUMMARY OF FINDINGS - Attach site		oint locations, transects, impo	ortant features, etc.			
Hydrophytic Vegetation Present?	No	Is the Sampled Area				
Hydric Soil Present?	No	within a Wetland?	Νο			
	No					
Wetland Hydrology Present?		If yes, optional Wetland	a site ID:			
Remarks: (Explain alternative procedure						
The upland sample point is located upslo	ope from the wetland in a	mesic hardwood forest.				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum of one is re	quired; check all that app	<u>ly)</u>	Surface Soil	Cracks (B6)		
Surface Water (A1)	Water-Stain	ed Leaves (B9)	Drainage Pa	tterns (B10)		
High Water Table (A2)	Aquatic Fau	na (B13)	Moss Trim L	Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposi	ts (B15)	Dry-Season	Dry-Season Water Table (C2)		
Water Marks (B1)		ılfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)		zospheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Reduced Iron (C4)		Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)		Reduction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck S		Shallow Aquitard (D3)			
Sparsely Vegetated Concave Surface (B8)			Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	<u>No</u> Depth (i	nches)				
Water Table Present?	<u>No</u> Depth (i	nches)				
Saturation Present?	<u>No</u> Depth (i	nches)	Wetland Hydrology Pre	sent? <u>No</u>		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, r	nonitoring well, aerial ph	otos, previous inspections), if a	vailable:			
Remarks:						
The point is located on a rise. No wetland	d hydrology was observed	1.				

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5005h...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot Size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species
Acer saccharum	50.00	Yes	FACU	That Are OBL, FACW, or FAC:(A)
Populus tremuloides	40.00	Yes	FACU	Total Number of Dominant
				2
Quercus rubra	5.00	No	FACU	Species Across All Strata: (B)
				Percent of Dominant Species
				0 That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
				<u>Total % Cover of:</u> Multiply by: OBL species 0.00 x 1 0
15 ft	95	= Total Cover		
apling/Shrub Stratum (Plot Size: 15 ft) Acer saccharum	10.00			FACW species 7.00 x 2 14
	10.00	Yes	FACU	FACU species 0.00 x 3 520
				UPL species 0.00 x 4 0
·				Column Totals <u>137</u> (A) <u>534</u> (B)
				Prevalence Index = $B/A = \frac{3.8978102}{2}$
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				no2 - Dominance Test is > 50%
	10	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$
erb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations ¹ (Provide
Acer saccharum	25.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
Fraxinus nigra	5.00	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Ulmus americana	2.00	No	FACW	
				¹ Indicators of hydric soil and wetland hydrology must be present, unless 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 that or equal to 3.28 ft (1 m) tall.
0				_
1				Herb - All herbaeceous (non-woody) plants, regardless of size, an woody plants less than 3.28 ft tall.
2				
	32	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
/oody Vine Stratum (Plot Size:)				
				_
				— Hydrophytic
	- <u></u>			Vegetation
·				
<u>Voody Vine Stratum</u> (Plot Size:) 	0	=Total Cover		Vegetation

SOIL

Depth	Description: (Describe to the depth needed to document the indicator or co Matrix Redox Features					icators.)		
(inches) 0-6	Color (moist) 10YR 2 1	% 100	Color (moist)	%	Type ¹	Loc ²	Texture SIL	Remarks
6-24	10YR 4 2	50					VFSL	
6-24	10YR 5 2	45	10YR 5 6	5	С	М	VFSL	
		 			·	- <u> </u>	· ·	
						 	·	
¹ Type: C=Concen	tration, D=Depletion, RM=	Reduced N	1atrix, MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indica	itors:		Polyvalue Below	Surface (58) (I RR F		Indicators for P	Problematic Hydric Soil ³ :
Histosol (/	A1)		149B)	Surface (,	🗌 2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Histic Epip	oedon (A2)		Thin Dark Surfac	e (S9) (LRI	R R, MLR/	A 149B)	Coast Prai	irie Redox (A16)(LRR K, L, R)
Black Hist	ic (A3)		Loamy Mucky M	ineral (F1)	(LRR K, I	_)	5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Gleyed N	latrix (F2)			Dark Surfa	ace (S7) (LRR K, M)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)		Redox Dark Surf	ace (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Darl	Surface (A12)		Depleted Dark S	urface (F7)		Iron-Maga	anese Masses (F12) (LRR K, L, R)
Sandy Mu	cky Mineral (S1)		Redox Depressio	ons (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy Gle	yed Matrix (S4)						Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
Sandy Rec	lox (S5)						Red Paren	nt Material (F21)
Stripped N	Matrix (S6)						Very Shall	ow Dark Surface (TF12)
Dark Surfa	ace (S7) (LRR R, MLRA 149	В)					🗌 Other (ex	olain in remarks)
Restrictive Layer	(if observed):							
Туре:						,	Hydric Soil Present?	No
Depth (i	nches):							
Remarks:								
The soil is dry an	d silty throughout the pro	ile.						