WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP Cit	y/County: Clearwater Sampling Date: 6/3/2014
Applicant/Owner: Enbridge	State: MN Sampling Point: CLC5079b1W
Investigator(s): EAB/RAJ	Section, Township, Range:
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none) CC
Slope (%): 0 - 2% Lat.: 47.397069 Lor	ng.: -95.253818 Datum:
Soil Map Unit Name: 40B	NWI Classification:
Are climatic/hydrologic conditions of the site typical for this	
Are vegetation, soil, or hydrology	significantly disturbed? Are "normal circumstances"
Are vegetation, soil, or hydrology	naturally problematic? present?
(If needed, explain any answers in remarks)	
SUMMARY OF FINDINGS	
Hydrophytic vegetation present? Y Hydric soil present? Y	Is the sampled area within a wetland? Y
Indicators of wetland hydrology present? Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures here or in a sep	
	c hardwood forest. Lake sedge and greater bladder sedge
dominate the community.	
HYDROLOGY	
Drimen undigetere (minimum effecterie in mensionale de seu elle	Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all Surface Water (A1)	that apply) required) Stained Leaves (B9) Surface Soil Cracks (B6)
	Fauna (B13) Drainage Patterns (B10)
	posits (B15)
	en Sulfide Ódor (C1)
Sediment Deposits (B2) Oxidize	d Rhizospheres on Living Crayfish Burrows (C8)
Drift Deposits (B3)	
	ce of Reduced Iron (C4) (C9)
	Iron Reduction in Tilled Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (C	
	uck Surface (C7) Shallow Aquitard (D3)
	Explain in Remarks)
Surface (B8)	PAC-Neutral Test (D5)
Field Observations:	
Surface water present? Yes	Depth (inches): 4 Indicators of
Water table present? Yes	Depth (inches): 0 wetland
Saturation present? Yes	Depth (inches): 0 hydrology
(includes capillary fringe)	present? Y
Describe recorded data (stream gauge, monitoring well, a	prial photon provinue increations), if availables
Describe recorded data (stream gauge, monitoring well, a	
Remarks:	
Surface water is present throughout the commu	inity.

VEGETATION - Use scientific names of plants	Sampling Point: CLC5079b1W				
Tree Stratum Plot Size (30 ft) 1	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 0 0 Sapling/Shrub Stratum 0 0 Herb Stratum 19 48 Woody Vine Stratum 0 0	
4		Total Cover Dominant Species	Indicator Status	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 2 Total Number of Dominant Species Across all Strata: 2 Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% Prevalence Index Worksheet Total % Cover of: OD 100	
3 4 5 6 7 8 9 10		Total Cover		OBL species 56 $x 1 =$ 56 FACW species 40 $x 2 =$ 80 FAC species 0 $x 3 =$ 0 FACU species 0 $x 4 =$ 0 UPL species 0 $x 5 =$ 0 Column totals 96 (A) 136 Prevalence Index = B/A = 1.42	
Herb Stratum Plot Size (5ft)) 1 Carex lacustris 2 Carex intumescens 3 Equisetum sylvaticum 4 Carex stipata 5 Impatiens capensis 6 Phalaris arundinacea 7 Iris versicolor 8 Galium labradoricum 9 Epilobium coloratum	Absolute % Cover 40 20 10 5 5 5 5 5 5 5 5 1	Dominant Species Y N N N N N N N N N	Indicator Status OBL FACW FACW FACW FACW OBL OBL OBL	Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
10. 11. 12. 13. 14. 15.				 Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. 	
Woody Vine Stratum Plot Size (30 ft)	96 = Absolute % Cover	Total Cover Dominant Species	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 	
3 4 5	=	Total Cover		Hydrophytic vegetation present? <u>Y</u>	
Remarks: (Include photo numbers here or on a separate The community is dominated by hydrophytic s	·				

SOIL								Samp	ling Point:	CLC5079b1W
Profile	Description:	(Describe to	o the d	epth needed to	document	the ind	icator or co	onfirm th	e absence o	f indicators.)
Depth		Matrix			Redox F		-			Remarks
(ln.)		(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	
0-8	Hue_10YR	2/1	100		4/0	0	0		M	
8-18	Hue_10YR Hue_10YR	5/2 3/1	80 18	Hue_10YR	4/6	2	С	М	С	Organic streaks.
		5/1	10							Organic streaks.
								-		
*Type:	C=Concentra	ation D=De	oletion	, RM=Reduced	Matrix CS	=Cover	ed or Coa	ted Sand	Grains	
	ion: PL=Pore					-00701				
	Soil Indicat	-						Indicat	ors for Pro	blematic Hydric Soils:
☑ Histic Epipedon (A2) (S8) (LRR R, MLRA ☑ Black Histic (A3) ☐ Thin Dark Surface (☐ Hydrogen Sulfide (A4) ☐ Chin Dark Surface (☐ Depleted Below Dark Suface (A11) ☐ Loamy Mucky Mine ☐ Thick Dark Surface (A12) ☐ Loamy Gleyed Matrix (S4) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface ☐ Sandy Redox (S5) ☐ Depleted Dark Surface ☐ Stripped Matrix (S6) ☐ Redox Depressions ☐ Dark Surface (S7) (LRR R, MLRA *Indicators of hydrophytic vegetation and wetland hydrology must be p				face (S A 149B Minera I Matrix ix (F3) urface Surfac sions (9) I (F1) (F2) (F6) ce (F7) F8)	 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 				
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present? Y			
Remark Dark		rlays clay	with r	edox concent	trations.					