WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City	/County: Clearwater	Sampling Date: 6/2/2014
Applicant/Owner: Enbridge	State: N	IN Sampling Point: CLC5078c1W
Investigator(s): EAB/RAJ		Township, Range:
Landform (hillslope, terrace, etc.) Depression		concave, convex, nonc <u>CC</u>
Slope (%): 0 - 2% Lat.: 47.395421 Lon	g.: <u>-95.254928</u> Datur	
Soil Map Unit Name: 40B		NWI Classification: PSS1C
Are climatic/hydrologic conditions of the site typical for th Are vegetation, soil, or hydrology	s time of the year?	(If no, explain in remarks)
Are vegetation, soil, or hydrology (If needed, explain any answers in remarks)	naturally problematic	? circumstances" present?
(in needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Y Hydric soil present? Y	Is the sampled area wit	hin a wetland? Y
Indicators of wetland hydrology present? Y	If yes, optional wetland s	ite ID:
Remarks: (Explain alternative procedures here or in a se	parate report.)	
The wetland community is a shallow marsh domi	nated by lake sedge. It lie	es in a basin that is also occupied by
an alder thicket community.		
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all	that apply)	required)
	tained Leaves (B9)	Surface Soil Cracks (B6)
	Fauna (B13)	Drainage Patterns (B10)
	posits (B15)	Moss Trim Lines (B16)
	en Sulfide Odor (C1)	 Dry-Season Water Table (C2) Crayfish Burrows (C8)
	I Rhizospheres on oots (C3)	Saturation Visible on Aerial Imagery
	e of Reduced Iron (C4)	(C9)
	ron Reduction in Tilled	Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial Soils (C		Geomorphic Position (D2)
	ck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Other (E	xplain in Remarks)	Microtopographic Relief (D4)
Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface water present? Yes	Depth (inches): 8	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	erial photos, previous inspec	tions), if available:
Remarks:		
Standing water is present throughout the comn	nunity.	
	-	

EGETATION -	Use scientific	names of	r piani	S		Sampling Point:	: CLC507	8c1W	
Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum Sapling/Shrub Stratum Herb Stratum	20% 0 0 22	50% 0 55
Sapling/Shrub	Plot Size (15 ft)	0 Absolute % Cover	Total Cover Dominant Species	Indicator Status	Woody Vine Stratum Dominance Test Worksh Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across all Strata: Percent of Dominant Species that are OBL, FACW, or FAC:	1 1 100.00	0 (A) (B) <u>0%_</u> (A/B)
							Prevalence Index Worksl Total % Cover of: OBL species 90 x 1 FACW species 15 x 2 FAC species 5 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 110 (A) Prevalence Index = B/A = (A)	= 9 = 3 = 1 = (0)	00 5 0 0 35 (B)
Herb Stratum Carex lacustris Calamagrostis Impatiens cap Equisetum arv Comarum pali Ribes hirtellur	s canadensis ensis rense ustre	5 ft)	0 Absolute % Cover 75 10 10 5 5 5 5	= Total Cover Dominant Species Y N N N N N N	Indicator Status OBL OBL FACW FAC OBL FACW	Hydrophytic Vegetation I Rapid test for hydrophy X Dominance test is >50 X Prevalence index is ≤3 Morphological adaptati supporting data in Ren separate sheet) Problematic hydrophytic (explain) *Indicators of hydric soil and wet present, unless disturbed or protein	vtic vege % .0* ons* (pro narks or o ic vegeta land hydro	tation ovide on a ation*
2 3 4 5					Total Cover		Definitions of Vegetation Tree - Woody plants 3 in. (7.6 cr breast height (DBH), regardless Sapling/shrub - Woody plants le greater than 3.28 ft (1 m) tall.	n) or more of height.	
Woody Vine Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status	Herb - All herbaceous (non-woo size, and woody plants less than Woody vines - All woody vines of height.	3.28 ft tall	
				0	Total Cover		Hydrophytic vegetation present? Y	_	

SOIL								Samp	ling Point:	CLC5078c1W	
Profile	Description:	(Describe	to the	denth needed t	o document	tha i	ndicator or	confirm	the absenc	e of indicators.)	
Depth	· · ·	Matrix			Redox Fe			COMIN			
(In.)		(moist)	%	Color (m		%	Type*	Loc**	Texture	Remarks	
· /		· /	_		0151)	70	туре	LUC			
0-6	Hue_10YR	2/1	100						MMI		
6-18	Hue_10YR	2/1	60						С		
	Hue_10YR	5/1	40						С	Organic streaking	
			-								
				n, RM=Reduce	d Matrix, CS	=Co	vered or Co	oated Sa	and Grains		
**Locat	ion: PL=Por	e Lining, M	=Matriz	x							
Hydric	Soil Indica	tors:						Indicat	ors for Pro	blematic Hydric Soils:	
_				<u> </u>		~		_			
 _	Histosol (A				yvalue Belov					10) (LRR K, L, MLRA 149B	
_ 	Histic Epipe) (LRR R, M					Redox (A16) (LRR K, L, R)	
⊣≓	Black Histic Hydrogen S				n Dark Surfa R R, MLRA					eat or Peat (S3) (LRR K, L, R)	
⊣⊣	Stratified La				amy Mucky N					S7) (LRR K, L ow Surface (S8) (LRR K, L)	
井	Depleted B		Suface		R K, L)	milei	ai (i i)		n Dark Surf	face (S9) (LRR K, L)	
⊣≓	Thick Dark				amy Gleyed I	Matri	ix (F2)			se Masses (F12) (LRR K, L, R	
Ħ	Sandy Muc				oleted Matrix					dplain Soils (F19) (MLRA 149)	
	Sandy Gley				dox Dark Su					(TA6) (MLRA 144A, 145, 149E	
	Sandy Red		,		oleted Dark					aterial (F21)	
Stripped Matrix (S6)							Dark Surface (TF12)				
Dark Surface (S7) (LRR R, MLRA											
*Indica	tors of hydro	phytic vege	etation	and wetland hy	drology mus	st be	present, u	nless dis	turbed or p	roblematic.	
Restric	tive Layer (if	observed)									
Type:	live Layer (ii	ubserveu)	-					Hydric	soil nrose	ent? Y	
	(inches):				,			inguite	, son prese	<u> </u>	
2 op (
Remar	KS:										
The surface layer of soil is dark mucky mineral.											
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l											