WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	_ City/County: Carlton	Sampling Date: 5/29/2014
Applicant/Owner: Enbridge	State: N	
Investigator(s): KJA/JRT		Township, Range:
Landform (hillslope, terrace, etc.): Depression	,	concave, convex, none): CC
Slope (%): 0 - 2% Lat.: 46.59716	_Long.: <u>-92.293777</u> Datur	
Soil Map Unit Name: 303	for this time of the constant	NWI Classification:
Are climatic/hydrologic conditions of the site typical Are vegetation , soil , or hydrol		(If no, explain in remarks)
		<u> </u>
Are vegetation, soil, or hydrol (If needed, explain any answers in remarks)	ogynaturally problematic	? circumstances" present?
(If fleeded, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Hydric soil present? Y	Is the sampled area wit	hin a wetland? Y
Hydric soil present? Indicators of wetland hydrology present? Y	 If yes, optional wetland s 	ite ID:
	_	
Remarks: (Explain alternative procedures here or in		
The wetland is a small depressional area wi	. • .	-
and reed canary grass were the most comm	on wetland plants observed a	at the site.
HYDROLOGY		
 ☑ High Water Table (A2) ☑ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Adapted Adapted April Adapted April Adapted April Apr	eck all that apply) ater-Stained Leaves (B9) quatic Fauna (B13) arl Deposits (B15) vdrogen Sulfide Odor (C1) cidized Rhizospheres on ving Roots (C3) esence of Reduced Iron (C4) ecent Iron Reduction in Tilled bils (C6) in Muck Surface (C7) her (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations: Surface water present? Water table present? Saturation present? (includes capillary fringe) Yes Ves Ves Ves	Depth (inches): 2 Depth (inches): 0 Depth (inches): 0	Indicators of wetland hydrology present? Y
Describe recorded data (stream gauge, monitoring	well, aerial photos, previous inspec	ctions), if available:
Remarks:		
The sample point had three primary indica	tors of wetland hydrology pre-	sent (surface water, high water table
and saturation).		

SUIL								Samp	oling Point:	CR163c1W
			to the d	epth needed to				r confirm	the absence	e of indicators.)
Depth		Matrix	0/	Oalar (m.	Feature		1**	l	Remarks	
(ln.)		(moist)	%	Color (mo	oist)	%	Type*	Loc**	Texture	
0-6 6-18	Hue_7.5YR	2.5/1 2.5/1	100						CL C	
0-18	Hue_7.5YR	2.5/1	100						C	
			+ +							
			+ +							
			+ +							
			1 1							
				, RM=Reduced	d Matrix,	CS=Co	vered or C	oated S	and Grains	
	tion: PL=Por	<u> </u>	=Matrix							
Hydric	Soil Indica	tors:						Indica	tors for Pro	blematic Hydric Soils:
	Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped Ma Dark Surfact	c (A3) Sulfide (A4) ayers (A5) elow Dark S Surface (A ky Mineral yed Matrix (ox (S5) atrix (S6) ce (S7) (LR	Suface (12) (S1) S4) R R, ML	☐ Thir (LR (LR Loan A11) (LR Loan A11) (LR Loan Dep Red Dep Red Dep Red Dep Red) (LRR R n Dark St R R, ML my Muck R K, L) my Gleye bleted Ma lox Dark bleted Da lox Depre	urface (\$ RA 149 ky Miner ed Matri atrix (F3) Surface urk Surfa essions	S9) B cal (F1) x (F2)) c (F6) ace (F7) (F8)	Da D	cm Mucky Peark Surface (Solyvalue Belouin Dark Surfacen-Manganes edmont Flooresic Spodic (ed Parent Maery Shallow Eher (Explain	Oark Surface (TF12) in Remarks)
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present?Y			
Remar Soil		etland sam	nple po	int meet the	F1 hyd	ric soil	indicator	, Loam	y Mucky M	lineral.