WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County:	Clearwater	Sampling Date: 6/6/2014
Applicant/Owner: Enbridge		State: N	
Investigator(s): EAB/RAJ			Township, Range:
Landform (hillslope, terrace, etc.) Depression			concave, convex, none <u>CC</u>
Slope (%): 0 - 2% Lat.: 47.644278	_Long.: <u>-95.4</u> 0	0159 Datu	
Soil Map Unit Name: 540 Are climatic/hydrologic conditions of the site typical	for this time of	the vear?	NWI Classification: PEM/SS1C
Are vegetation , soil , or hydrol		gnificantly disturbe	(If no, explain in remarks) d? Are "normal
Are vegetation \Box , soil \Box , or hydrol		aturally problemation	_
(If needed, explain any answers in remarks)	logy <u> </u>	aturally problematic	circumstances present?
(in needed, explain any answers in remarks)			
OUMAN BY OF FINDINGS			
SUMMARY OF FINDINGS	1		
Hydrophytic vegetation present? Hydric soil present? Y Y	_ Is the	sampled area wit	thin a wetland? Y
Indicators of wetland hydrology present?	- If ves	, optional wetland s	site ID:
	- ","	, optional wotana c	
Remarks: (Explain alternative procedures here or in			
The community is a black ash/balsam popla	r swamp loca	ited adjacent to	a marsh that is within a maintained
pipeline corridor. The forested community gr	radually peter	rs out to the eme	ergent marsh. Trees in the transition
zone between forest and marsh exhibit sign			
HYDROLOGY			
			Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; che	eck all that apply	y)	required)
	ater-Stained Lea		Surface Soil Cracks (B6)
	quatic Fauna (B1		Drainage Patterns (B10)
	arl Deposits (B1		Moss Trim Lines (B16)
	/drogen Sulfide (Dry-Season Water Table (C2)
· · · · · · · · —	kidized Rhizosph	neres on	Crayfish Burrows (C8)
	ving Roots (C3) esence of Redu	cod Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)
	ecent Iron Reduc	` ,	Stunted or Stressed Plants (D1)
· · · · /	oils (C6)	CHOIT III TIMEG	Geomorphic Position (D2)
<u> </u>	nin Muck Surface	e (C7)	☐ Shallow Aquitard (D3)
	ther (Explain in F	, ,	☐ Microtopographic Relief (D4)
Surface (B8)	()	,	FAC-Neutral Test (D5)
Field Observations:	5 "		Indicators of
Surface water present? Yes		n (inches):	Indicators of
Water table present? Yes		(inches): 6	wetland hydrology
Saturation present? Yes (includes capillary fringe)	Deptr	(inches): 0	present?
(includes capillary inlige)			present:
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
. 557		•	•
Remarks:			
Soils are saturated throughout the profile.			
20.0 a. 0 ca.a. atou anoughout and promot			

SOIL Sampling Point: CLC5011a3W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth Remarks Color (moist) % Color (moist) Loc** Texture (ln.) Type* Hue 10YR 100 MMI 0-5 2/1 Hue 10YR 5/2 98 Hue_7.5YR 3/4 С 5-10 Μ С 10-18 Hue 10YR 90 10 4/1 Hue_7.5YR 3/4 С Μ С Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils: Polyvalue Below Surface ☐ Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R. MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) (LRR R, MLRA 149B Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L ☐ Loamy Mucky Mineral (F1) Stratified Layers (A5) Polyvalue Below Surface (S8) (LRR K, L) (LRR K, L) Depleted Below Dark Suface (A11) Thin Dark Surface (S9) (LRR K, L) Loamy Gleyed Iviaux
Depleted Matrix (F3) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleved Matrix (S4) Redox Dark Surface (F6) Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) ☐ Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Hydric soil present? Y Type: Depth (inches): Remarks: Redox features are present below the surface layer.