WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County: Clearwater	Sampling Date: 6/3/2014
Applicant/Owner: Enbridge	State: N	
Investigator(s): EAB/RAJ		Гownship, Range:
Landform (hillslope, terrace, etc.): Depression		oncave, convex, none) <u>CL</u>
Slope (%): 0 - 2% Lat.: 47.397043	Long.: <u>-95.253642</u> Datur	
Soil Map Unit Name: 40B	and this diese of the years?	NWI Classification:
Are climatic/hydrologic conditions of the site typical for Are vegetation , soil , or hydrol		(If no, explain in remarks)
Are vegetation , soil , or hydrol		_
(If needed, explain any answers in remarks)	naturally problematics	present?
(II needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Hydric soil present? Y Y	_ ls the sampled area with	nin a wetland? Y
Indicators of wetland hydrology present?	 If yes, optional wetland sit 	te ID:
Remarks: (Explain alternative procedures here or in a separate report.)		
The wetland is located in an aspen-dominated shrub-carr that lies between two shallow marshes.		
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; chec	11 3/	required)
	ater-Stained Leaves (B9)	Surface Soil Cracks (B6)
1 =	ıuatic Fauna (B13) arl Deposits (B15)	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)
	drogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
	kidized Rhizospheres on Living	☐ Crayfish Burrows (C8)
	oots (C3)	Saturation Visible on Aerial Imagery
☐ Algal Mat or Crust (B4) ☐ Pr	esence of Reduced Iron (C4)	(C9)
1 = · · · · · · —	ecent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
	oils (C6)	Geomorphic Position (D2)
	in Muck Surface (C7)	☐ Shallow Aquitard (D3)
, ,	her (Explain in Remarks)	☐ Microtopographic Relief (D4)☑ FAC-Neutral Test (D5)
Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface water present? Yes	Depth (inches):	Indicators of
Water table present? Yes	Depth (inches): 10	wetland
Saturation present? Yes	Depth (inches): 0	hydrology
(includes capillary fringe)		present? Y
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
2000/100 1000/1000 data (officially gauge, monitoring won, acrial priotos, provious inspections), if available.		
Remarks:		
Soils are saturated to the surface throughout the wetland community.		

SOIL **Sampling Point:** CLC5079b2W 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) Type* Loc** Texture (ln.) 100 MMI 0-6 Hue 10YR 2/1 6-18 Hue 10YR 6/2 69 Hue_10YR 4/6 30 С Μ SC Hue_5YR 2.5/1 С Μ SC 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:** Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) ☐ Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Suface (A11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) ☐ Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K. L. R) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed 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 (both iron and manganese) are present beneath mucky mineral soil.