WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	_ City/County: _ <u>Carlton</u>	Sampling Date: 5/26/2014
Applicant/Owner: Enbridge	Sta	ate: MN Sampling Point: CR125b1W
Investigator(s): LEB/CPF		ction, Township, Range:
Landform (hillslope, terrace, etc.): Depression		relief (concave, convex, none): CC
Slope (%): 0 - 2% Lat.: 46.617613	Long.: <u>-92.413644</u>	Datum:
Soil Map Unit Name: 975	fan thia time af tha	NWI Classification: PSSB
Are climatic/hydrologic conditions of the site typical Are vegetation, soil, or hydrol		(If no, explain in remarks)
Are vegetation , soil , or hydrol		_
(If needed, explain any answers in remarks)	naturally probl	ematic? circumstances present?
(if ficeded, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Hydric soil present? Y Y	_ Is the sampled ar	ea within a wetland? Y
Indicators of wetland hydrology present?	If yes, optional we	tland site ID:
Demorks: /Funlain alternative precedures have as in	a concrete report \	
Remarks: (Explain alternative procedures here or in		ing pipeline corridor that bisects cottle
The sample point is located in a wet meador	w community in an exist	ing pipeline corndor that bisects cattle
pasture.		
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) ✓ Sparsely Vegetated Concave Surface (B8) 	ack all that apply) ater-Stained Leaves (B9) uatic Fauna (B13) arl Deposits (B15) drogen Sulfide Odor (C1) cidized Rhizospheres on ring Roots (C3) esence of Reduced Iron (C4) ecent Iron Reduction in Tilled ills (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 Yes Yes (includes capillary fringe)	Depth (inches): Depth (inches): Depth (inches):	7 Indicators of wetland hydrology present? Y
Describe recorded data (stream gauge, monitoring	well, aerial photos, previous	inspections), if available:
Remarks:		
The wetland is inundated at the time of su	rvey. Potamogeton spp.	and turtles are present.

							Sampl	ing Point:	CR125b1W	
		to the de	pth needed to					of indicators.)		
	0/2					1.00**	Teyture	Remarks		
Coloi	(IIIOISI)	70	Color (III	Jist)	/0	туре	LUC	Texture		
		+ +			+					
		+								
C=Concent	l ration D=Γ)enletion	RM=Reduce	d Matrix	CS=Co	vered or C	nated Sa	nd Grains		
		•	TWI TROUBOC	a matrix,	00 00	VC1CG 01 0	outou ou	na Graino		
Soil Indica	tors:						Indicate	ors for Proble	matic Hydric Soils:	
Histic Epipedon (A2) □ Black Histic (A3) □ Hydrogen Sulfide (A4) □ Stratified Layers (A5) □ Depleted Below Dark Suface (A11) □ Thick Dark Surface (A12) □ Sandy Mucky Mineral (S1) □ Sandy Gleyed Matrix (S4) □ Sandy Redox (S5) □ Stripped Matrix (S6) □ Dark Surface (S7) (LRR R, MLRA						Coast Prairie Redox (A16) (LRR K, L, R) S9) Coast Prairie Redox (A16) (LRR K, L, R) S 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) CE (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present?Y			
-		•	•					•	•	
	C=Concention: PL=Por Soil Indica Histosol (A Histic Epiper Black Histic Hydrogen Stratified L Depleted B Thick Dark Sandy Much Sandy Gley Sandy Red Stripped M Dark Surfators of hydrotive Layer (inches):	Matrix Color (moist) C=Concentration, D=E tion: PL=Pore Lining, N Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) Depleted Below Dark Thick Dark Surface (A5) Sandy Mucky Mineral Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Littors of hydrophytic vegositive Layer (if observed (inches): ks: Id not dig due to the	Matrix Color (moist) % Color (moist) % C=Concentration, D=Depletion, tion: PL=Pore Lining, M=Matrix Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Suface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, ML) tors of hydrophytic vegetation ar tive Layer (if observed): (inches):	Matrix Color (moist) % Color (moist) Color (moist) % Color	Matrix Redox Color (moist) % Color (moist) C=Concentration, D=Depletion, RM=Reduced Matrix, tion: PL=Pore Lining, M=Matrix Soil Indicators: Histosol (A1) Polyvalue Be (S8) (LRR R) Histic Epipedon (A2) (S8) (LRR R) Black Histic (A3) CIRR R, MLI Stratified Layers (A5) CIRR R, MLI Thick Dark Surface (A12) Clark Surface (A11) Thick Dark Surface (A12) Depleted Matrix (S4) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA tors of hydrophytic vegetation and wetland hydrology retive Layer (if observed): (inches): KS: Id not dig due to the proximity to an existing piles.	Matrix Color (moist) Color (alignative Alignative A	Matrix Redox Features Color (moist) % Color (moist) % Type* Color (moist)	Description: (Describe to the depth needed to document the indicator or confirm Matrix Redox Features Color (moist) % Color (moist) % Type* Loc** Color (moist) % Color (moist) % Type* Loc** Color (moist) % Type* Loc*	Color (moist) % Color (moist) % Type* Loc** Texture Color (moist)	