WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County:	Hubbard	Sampling Date: 5/27/2014	
Applicant/Owner: Enbridge		State:	MN Sampling Point: HUC5226a1W	/
Investigator(s): BEH/BCS		Section	, Township, Range:	
Landform (hillslope, terrace, etc.): Depression		Local relief	(concave, convex, none): CC	
Slope (%): <u>0 - 2%</u> Lat.: <u>47.20934209</u>	Long.: <u>-94.95</u>	5106 Dat	tum:	
Soil Map Unit Name: 1336			NWI Classification:	
Are climatic/hydrologic conditions of the site typical				
Are vegetation, soil, or hydrol		nificantly disturb	_	7
Are vegetation, soil, or hydrol	logy <u> </u>	turally problema	tic? circumstances" present?	✓
(If needed, explain any answers in remarks)				
SUMMARY OF FINDINGS				
Hydrophytic vegetation present? Hydric soil present? Y Y	ls the	sampled area w	vithin a wetland?	
	_			
Indicators of wetland hydrology present? Y	_ If yes,	optional wetland	site ID:	
Remarks: (Explain alternative procedures here or in	n a separate repo	ort.)		
The wetland is a small, depressional sedge	meadow which	h is surrounde	ed by a mowed field. Carex utriculate	а
covers the majority of the meadow.				
, ,				
HYDROLOGY				
		A.	Secondary Indicators (minimum of tw	/O
Primary Indicators (minimum of one is required; che Surface Water (A1)	ater-Stained Leav		required) Surface Soil Cracks (B6)	
	quatic Fauna (B13		☐ Drainage Patterns (B10)	
	arl Deposits (B15)		Moss Trim Lines (B16)	
	ydrogen Sulfide O		Dry-Season Water Table (C2)	
	xidized Rhizosphe	eres on	Crayfish Burrows (C8)	
	ving Roots (C3)		Saturation Visible on Aerial Imager	y
	esence of Reduce	` ,	(C9)	
<u> </u>	ecent Iron Reduct	ion in Tilled	Stunted or Stressed Plants (D1)	
	oils (C6) nin Muck Surface	(C7)	✓ Geomorphic Position (D2)✓ Shallow Aquitard (D3)	
_ * * * * *	ther (Explain in Re	. ,	☐ Microtopographic Relief (D4)	
Surface (B8)	iner (Explain in re	cinario)	FAC-Neutral Test (D5)	
Field Observations:	5 "		Indicators of	
Surface water present? Yes		(inches): 1	Indicators of	
Water table present? Yes		(inches): 0	wetland	
Saturation present? Yes (includes capillary fringe)	Depth	(inches): 0	hydrology present? Y	
(includes capillary inlige)			present:	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				
Standing water is present throughout the r	majority of the	wetland, over	1 foot deep in some locations.	

SOIL Sampling Point: HUC5226a1W 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 0-6 2/1 MMI Hue 10YR 3/2 100 SIC 6-10 10-20 Hue 2.5Y 5/2 85 Hue_10YR 4/4 15 С Μ SCL 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: Soil profile consists of 6 inches of mucky mineral soil underlain by two clayey layers, one of which contains prominent redox concentrations; soil meets hydric soil indicators A11- Depleted Below Dark Surface and F1-Loamy Mucky Mineral.