WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County: Wadena	Sampling Date: <u>9/8/2014</u>
Applicant/Owner: Enbridge	State: MN	Sampling Point: WA006a1W
Investigator(s): RAJ/BEH Section, Township, Range:		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (cor	ncave, convex, none CC
Slope (%): 0 - 2% Lat.: 46.7942615	Long.: -94.8763108 Datum:	
Soil Map Unit Name: 1968		NWI Classification: PSS1C
Are climatic/hydrologic conditions of the site typical		(If no, explain in remarks)
Are vegetation, soil, or hyd	rology significantly disturbed?	Are "normal
Are vegetation, soil, or hyde	rology naturally problematic?	circumstances" present?
(If needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present?	Is the sampled area within	a wetland?
Hydric soil present?	<u></u>	_
Indicators of wetland hydrology present?	If yes, optional wetland site	ID:
Remarks: (Explain alternative procedures here or in a separate report.)		
		al. The appeals rejutions
A floodplain forest community dominated by green ash, black ash, and bur oak. The sample point is in a		
shallow depression in the floodplain forest. All parameters of wetland conditions are present. As fluvial		
deposits in a floodplain, the soils are natura	ally problematic.	
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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)	Meck all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (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? Yes	Depth (inches):	Indicators of
Water table present? Yes	Depth (inches):	wetland
Saturation present? Yes	Depth (inches):	hydrology
(includes capillary fringe)		present? Y
Describe recorded data (atream across as a literia	well periol photos previous incresting	(a) if eveilable:
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		
Indicators of wetland hydrology are present.		
, 3, 1		

SOIL WA006a1W **Sampling Point:** 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** (In.) Type* Texture 0-6 Hue_10YR 2/1 100 MMI 4/2 40 LCOS 6-13 Hue_10YR 60 6-13 Hue 10YR 5/1 LCOS 100 13-21 Hue_10YR 6/2 cos *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: 2 cm Muck (A10) (LRR K, L, MLRA 149B Histosol (A1) Polyvalue Below Surface 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) Dark Surface (S7) (LRR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) (LRR K, L) 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) Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**) 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: The soil has 6 inches of black mucky mineral over loamy coarse sand and coarse sand. As fluvially-deposited sediments in a floodplain, the soils are naturally problematic. Hydric soils are indicated.