WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City	City/County: Aitkin		Sampling Date: 2016-08-19		
Applicant/Owner: Enbridge			State: Minnesota	Sampli	ng Point: u-50n26w18-c1	
Investigator(s): ZCW, MGH		Section, Township	p, Range: <u>\$18,</u> T50N, R	26W		
Landform (hillslope, terrace, etc.): Side S	Slope		Local Relief (concave,	convex, none): VL	Slope (%): 0-2%	
Subregion (LRR or MLRA):		 Latitude: 46	5.823050989813 Lo	 ongitude: -93.68567604	Datum: NAD83	
Soil Map Unit Name: 204B				NWI Cla	assification: N/A	
Are climatic/hydrologic conditions on th	e site typical	for this time of year	? (if no. explain in Rem	_	No	
Are Vegetation No_, Soil No_, or Hydrology No_ significantly disturbed? Are "Normal Circumstances" present? Yes_						
Are Vegetation No_, Soil No_, or Hydr						
SUMMARY OF FINDINGS - Attach site	<u> </u>			oortant features, etc.	·	
Hydrophytic Vegetation Present?	_	No	Is the Sampled Area			
Hydric Soil Present?	-	No	within a Wetland?	- 1 C'L - 1D	No	
Wetland Hydrology Present?		lo	If yes, optional Wetlar	na site id:		
Remarks: (Explain alternative procedure						
Climatic conditions are "wet" based on	the results o	or a WETS analysis.				
LIVEROLOGY						
HYDROLOGY				Cocondon Indica	stars (minimum of two required)	
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is r	equired; che	ck all that apply)			il Cracks (B6)	
Surface Water (A1) Water-Stained Leave						
High Water Table (A2) Aquatic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Oc						
Sediment Deposits (B2) Oxidized Rhizosphe				Visible on Aerial Imagery (C9)		
Drift Deposits (B3) Presence of Reduced				ressed Plants (D1)		
Algal Mat or Crust (B4) Recent Iron Reductio				c Position (D2)		
Iron Deposits (B5) Thin Muck Surface (·				
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)		Other (Explain in Ren	narks)	FAC-Neutra		
Field Observations:	''				i rest (b3)	
Surface Water Present?	No	Donth (inches)				
Water Table Present?	No	Depth (inches) Depth (inches)				
Saturation Present?	No	Depth (inches)		Wetland Hydrology P	resent? No	
(includes capillary fringe)		Deptii (iliches)		wetiana nyarology P	resent:	
Describe Recorded Data (stream gauge,	monitoring	well serial photos p	revious inspections) if	available:		
Describe Recorded Data (stream gauge,	moments i	wen, aeriai photos, pi	revious irispections), ir	available.		
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Number of Dominant Species
Portulaca grandiflora	40.00	Yes	UPL	That Are OBL, FACW, or FAC: 0 (A)
2. Acer saccharum	25.00	Yes	UPL	Total Number of Dominant
3. Betula papyrifera	20.00	Yes	FACU	Species Across All Strata: 5 (B)
4.				Percent of Dominant Species
5.		_	_	That Are OBL, FACW, or FAC: 0 (A/B)
6.		_		Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
	85	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15				FACW species 0.00 x 2 0
1.				FACU species 40.00 x 3 160
2		-	-	
3			_	Column Totals 120 (A) 560 (B)
4				Prevalence Index = B/A = 4.6666666
5				_ Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7		_		no 2 - Dominance Test is > 50%
	0	_ = Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations ¹ (Provide
1. Acer saccharum	15.00	Yes	UPL	supporting data in Remarks or on a separate sheet)
2. Maianthemum canadense	10.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Aralia nudicaulis	10.00	Yes	FACU	Indicators of hydric soil and wetland hydrology must be present, unless
4				disturbed or problematic.
5				Definitions of Vegetation Strata:
6.				
7.				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8.				height (DBH), regardless of height.
9.				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
				or equal to 3.28 ft (1 m) tall.
10			_	-
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12		_	_	4
	35	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30				
1		_	_	
2.				Hydrophytic
3.				Vegetation Present? No
4.				7.7555
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	:)			
Remarks. (Include photo numbers here of on a separate sheet	,			

Sampling Point: u-50n26w... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Type¹ Loc² (inches) Color (moist) % Color (moist) % Texture Remarks 10YR 5 1 0-24 100 FSL ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (explain in remarks) Restrictive Layer (if observed): Hydric Soil Present? No Depth (inches): Remarks:

Site Photograph 1 Sampling Point: u-50n26w18-c1



Latitude:	46.8230505288083	Cowardin Classification:			
Longitude:	-93.6857559253403	Circular 39:			
Direction: Wes	st	Eggers & Reed:			
Remarks:					

Site Photograph 2 Sampling Point: u-50n26w18-c1



Latitude:	46.8230505288083	Cowardin Classification:		
Longitude:	-93.6857560929784	Circular 39:		
Direction: Sou	th	Eggers & Reed:		
Remarks:				