WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: <u>F</u>	City/County: Aitkin		Sampling Date: 2016-08-17	
Applicant/Owner: Enbridge		State: Minnesota	Samplii	ng Point: u-50n26w7-t1	
Investigator(s): ZCW, MGH	Section	, Township, Range: S7, T50N,	, R26W		
Landform (hillslope, terrace, etc.): Si	de Slope	Local Relief (conca	ve, convex, none): VV	Slope (%): 3-7%	
Subregion (LRR or MLRA):	La ⁺	titude: 46.839547664902	Longitude: -93.67840717	Datum: NAD83	
Soil Map Unit Name: 292			NWI Cla	ssification: N/A	
Are climatic/hydrologic conditions o	n the site typical for this tim	ne of year? (if no. explain in R		No	
, ,	••	, , , , ,	,		
Are Vegetation No , Soil No , o	r Hydrology <u>NO</u> significan	tly disturbed? Are "Normal (Circumstances" present? Yes		
Are Vegetation No , Soil No , or H	lydrology No naturally pr	oblematic? (If needed, expl	ain any answers in Remarks)		
SUMMARY OF FINDINGS - Attach		g point locations, transects,	important features, etc.		
Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Are	ea		
Hydric Soil Present?	<u>No</u>	within a Wetland?	•	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	If yes, optional We	tland Site ID:		
Remarks: (Explain alternative proce	dures here or in a separate	report.)			
Climatic conditions are "wet" based	on the results of a WETS a	nalysis.			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one	is required; check all that a	pply)	Surface So	il Cracks (B6)	
Surface Water (A1) Water-Stained Lea					
High Water Table (A2)	Aquatic F	auna (B13)	Moss Trim	Lines (B16)	
Saturation (A3)	Marl Dep	osits (B15)	Dry-Season	Water Table (C2)	
Water Marks (B1)	Hydrogen	Sulfide Odor (C1)	Crayfish Bu	rows (C8)	
Sediment Deposits (B2)	Oxidized	Rhizospheres on Living Roots (C3)	Saturation \	isible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence	of Reduced Iron (C4)	Stunted/Str	essed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iro	on Reduction in Tilled Soils (C6)	Geomorphi	Position (D2)	
Iron Deposits (B5)	Thin Muc	k Surface (C7)	Shallow Aqu	iitard (D3)	
Inundation Visible on Aerial Imagery	dation Visible on Aerial Imagery (B7) Other (Explain in R		Microtopog	raphic Relief (D4)	
Sparsely Vegetated Concave Surface	: (B8)		FAC-Neutra	Test (D5)	
Field Observations:					
Surface Water Present?	<u>No</u> Depti	h (inches)			
Water Table Present?	<u>No</u> Depti	h (inches)			
Saturation Present?	<u>No</u> Depti	h (inches)	Wetland Hydrology Pi	esent? <u>No</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gau	ige, monitoring well, aerial	photos, previous inspections), if available:		
Remarks:					
1					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Number of Dominant Species
1. Quercus rubra	15.00	Yes	FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Populus tremuloides	15.00	Yes	FAC	Total Number of Dominant
3.			-	Species Across All Strata: 5 (B)
4.		-	-	Percent of Dominant Species
5.		-	-	That Are OBL, FACW, or FAC: 20 (A/B)
	-	· -		Prevalence Index worksheet:
	-	-	-	
7			-	Total % Cover of: Multiply by:
	30	= Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>
Sapling/Shrub Stratum (Plot Size: 15				FACW species <u>0.00</u> x 2 <u>0</u>
1. Populus tremuloides	25.00	Yes	FAC	FACU species <u>30.00</u> x 3 <u>120</u>
2. Corylus cornuta	25.00	Yes	UPL	UPL species <u>100.00</u> x 4 <u>500</u>
3				Column Totals <u>170</u> (A) <u>740</u> (B)
4				Prevalence Index = B/A = 4.3529411
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.		-		no 2 - Dominance Test is > 50%
<u> </u>	50	= Total Cover		no 3 - Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot Size: 5		- Total cover		
1. Carex woodii	40.00	Yes		4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
				- -
2. Fragaria vesca	35.00	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Eurybia macrophylla	15.00	No No	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
	90	_ = 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 No
		-	-	Present?
4	0		_	1
		_=Total Cover		
Remarks: (include photo numbers here or 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 Loc² (inches) Color (moist) % Color (moist) % Type¹ Texture Remarks 10YR 4 2 0-10 100 LS 10YR 5 1 10YR 58 90 10-24 10 С Μ LS 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-50n26w7-t1



Latitude: 46.839547664902	Cowardin Classification:		
Longitude: -93.6784073431917	Circular 39:		
ection: South	Eggers & Reed:		
marks:			
pland			

Site Photograph 2 Sampling Point: u-50n26w7-t1



Latitude: 46.839547664902	Cowardin Classification:	
Longitude: -93.6784071755537	Circular 39:	
Direction: East	Eggers & Reed:	
Remarks:		
Upland		