WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Aitkin		Sampling Date: 2016-08-24			
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-50n26w17-aj1			
Investigator(s): ZCW, MGH	Section, Townshi	p, Range: S17, T50N, R26W				
Landform (hillslope, terrace, etc.): Depression	<u> </u>	Local Relief (concave, conv	ex, none): CL Slope (%): 0-2%			
Subregion (LRR or MLRA):	 Latitude: 46	•	ude: -93.67586687 Datum: NAD83			
Soil Map Unit Name: 204B	_		NWI Classification: N/A			
Are climatic/hydrologic conditions on the site ty	oical for this time of vear	? (if no. explain in Remarks)				
	•					
Are Vegetation No , Soil No , or Hydrology	NO significantly disturb	bed? Are "Normal Circumst	ances" present? Yes			
Are Vegetation No_, Soil No_, or Hydrology N	o naturally problemati	c? (If needed, explain any a	nswers in Remarks)			
SUMMARY OF FINDINGS - Attach site map sh	owing sampling point lo	cations, transects, importa	nt features, etc.			
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area				
Hydric Soil Present?	Yes	within a Wetland?	<u>Yes</u>			
Wetland Hydrology Present?	Yes	If yes, optional Wetland Sit	e ID: <u>w-50n26w17-aj</u>			
Remarks: (Explain alternative procedures here	or in a separate report.)					
Climatic conditions are "wet" based on the resu	Ilts of a WETS analysis.					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two require			
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)						
Surface Water (A1)	Water-Stained Leave	es (B9)	Drainage Patterns (B10)			
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 Od	lor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospher	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced	d Iron (C4)	Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction	on in Tilled Soils (C6)	yes Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (0	27)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Re	marks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		-	YES FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? No	Depth (inches)	i				
Water Table Present? No	Depth (inches)					
Saturation Present? <u>No</u>	Depth (inches)	· \	Vetland Hydrology Present? Yes			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, p	revious inspections), if avail	able:			
Remarks:						

VEGETATION - Use scientific names of plants.

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot Size: 30		Species?	Status	Number of Dominant Species
1.	<u> </u>				That Are OBL, FACW, or FAC: 3 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: 3 (B)
					Percent of Dominant Species
					That Are OBL, FACW, or FAC: 100 (A/B)
					Prevalence Index worksheet:
					Total % Cover of: Multiply by:
<u></u>			= Total Cover		OBL species 25.00 x 1 25
Sapling/Shrub Stratum	n (Plot Size: 15)		_		FACW species 75.00 x 2 150
1					FACU species 0.00 x 3 0
			_		UPL species <u>0.00</u> x 4 <u>0</u>
3					Column Totals <u>100</u> (A) <u>175</u> (B)
					Prevalence Index = B/A = 1.75
5			_		
6			_		1 - Rapid Test for Hydrophytic Vegetation
7			_	_	yes 2 - Dominance Test is > 50%
		0	_ = Total Cover		<u>yes</u> 3 - Prevalence Index is $\le 3.0^1$
Herb Stratum (Plot Siz	ze: <u>5</u>)				4 - Morphological Adaptations 1 (Provide
1. Phalaris arundinace	ea	40.00	Yes	FACW	supporting data in Remarks or on a separate sheet)
2. Salix petiolaris		25.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Alnus incana		20.00	Yes	FACW	Indicators of hydric soil and wetland hydrology must be present, unless
4. Poa palustris		15.00	<u>No</u>	FACW	disturbed or problematic.
5			_		Definitions of Vegetation Strata:
6			_		_
7					Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
8.				_	Height (Duri), regardless of neight.
			_	_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
					or equal to 3.28 ft (1 m) tall.
9					
9					Herb - All herbaeceous (non-woody) plants, regardless of size, and
9 10 11					Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9 10 11			= Total Cover		
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9	(Plot Size: <u>30</u>)	100			woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
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Sampling Point: w-50n26w...

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Site Photograph 1 Sampling Point: w-50n26w17-aj1



Latitude: 46.8156113382865	Cowardin Classification: PEM		
Longitude: -93.675841977907	Circular 39: 2		
virection: South	Eggers & Reed: Fresh (Wet) Meadow		
marks:			

Site Photograph 2 Sampling Point: w-50n26w17-aj1



Latitude:	46.8156114221055	Cowardin Classification: PEM
Longitude:	-93.6758416426309	Circular 39: 2
Direction: North		Eggers & Reed: Fresh (Wet) Meadow
Remarks:		