WETLA	ND DETER	RMINATION DATA FO	RM - North Central and	d Northeast F	Region	
Project/Site: 13_mainline	_ c	City/County: <u>Aitkin</u>			Sampling Date: 2017-06-02	
Applicant/Owner: Enbridge		State: Minnesota			Sampling Point: AIC5	300a50W
Investigator(s): DPT, MRG		Section, Township,	Range: S6, T47N, R22W			
Landform (hillslope, terrace, etc.): Depress Subregion (LRR or MLRA):			Local Relief (concave, con	nvex, none): <u>CC</u> ngitude: 0	<u> </u>	ope (%): -2%
Soil Map Unit Name: 625					NWI Classification: N	
Are climatic/hydrologic conditions on the		for this time of year?	if no ovalain in Romarks):			0
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydr					-	<u> </u>
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrol	ogy <u>No</u>	naturally problematic?	(If needed, explain any ar	nswers in Rema	arks)	
SUMMARY OF FINDINGS - Attach site r	nap showi	ing sampling point loca	tions, transects, importan	nt features, etc		
Hydrophytic Vegetation Present?		Yes	Is the Sampled Area			
Hydric Soil Present?		Yes	within a Wetland?		Yes	
Wetland Hydrology Present?		Yes	If yes, optional Wetland S	Site ID:	AIC5300a	1W
WETS analysis shows precipitation belov	v normal.					
HYDROLOGY						
Primary Indicators (minimum of one is recomposited in the second seco		Water-Stained Leaves Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odo Oxidized Rhizosphere: Presence of Reduced Recent Iron Reductior Thin Muck Surface (C7 Other (Explain in Rem Depth (inches) Depth (inches)	or (C1) s on Living Roots (C3) Iron (C4) n in Tilled Soils (C6) 7) arks)	yes yes	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Stunted/Stressed Plants (I Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (I FAC-Neutral Test (D5)	al Imagery (C9) D1)

VEGETATION - Use scientific names of plants.

Sampling Point: AIC5300a50W

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum	(Plot Size: 30	% Cover	Species?	Status	Number of Dominant Species	
1					That Are OBL, FACW, or FAC: 1 (A)	
					Total Number of Dominant	
					Species Across All Strata: 1 (B)	
4.					Percent of Dominant Species	
5.			_		That Are OBL, FACW, or FAC: 100 (A/B)	
					Prevalence Index worksheet:	
					Total % Cover of: Multiply by:	
····			= Total Cover		OBL species 100.00 x 1 100	
Sapling/Shrub Stratum	(Plot Size: 15)				FACW species 0.00 x 2 0	_
					FACU species 0.00 x 3 0	
					UPL species 0.00 x 4 0	-
					Column Totals 100 (A) 100	(B)
4					$\frac{1}{2}$ Prevalence Index = B/A = 1	_(0)
					Hydrophytic Vegetation Indicators:	
6.					1 - Rapid Test for Hydrophytic Vegetation	
7					yes 2 - Dominance Test is > 50%	
/		0	= Total Cover		yes 3 - Prevalence Index is $\leq 3.0^{1}$	
Herb Stratum (Plot Size:	.5)	<u> </u>			<u> </u>	
1. Typha X glauca	: <u>5 </u>)	100.00	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
					Problematic Hydrophytic Vegetation ¹ (Explain)	
					¹ Indicators of hydric soil and wetland hydrology must be present, un or problematic.	less disturbed
					Definitions of Vegetation Strata:	
					Definitions of vegetation strata:	
					Tree - Woody plants 3 in. (.76 cm) or more in diameter at t	areast
					height (DBH), regardless of height.	Jieast
9					Sapling/Shrub - Woody plants less than 3 in. DBH and great equal to 3.28 ft (1 m) tall.	iter than or
10					4	
11					Herb - All herbaeceous (non-woody) plants, regardless of s woody plants less than 3.28 ft tall.	ize, and
12						
		100	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in heigh	ht.
Woody Vine Stratum (P	lot Size: 30)					
1					_	
2.					Hydrophytic	
3.					Vegetation Present? <u>Yes</u>	
4.						
		0	=Total Cover			
Remarks: (include phot	o numbers here or on a separate sh	eet.)		1		
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SOIL

Profile Description: (Describe to the	depth neede			r or con	firm th	e absence of inc	dicators.)
Depth Matrix			Features		2		
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12 10YR 2 1	_ 100					MM	
			,				
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix	، MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:						Indicators for	Problematic Hydric Soil ³ :
Histosol (A1)		Polyvalue Below 149B)	Surface (S8)	(LRR R,	MLRA	🗌 2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Thin Dark Surface	e (S9) (LRR F	R. MLRA	149B)	Coast Pra	airie Redox (A16)(LRR K, L, R)
Black Histic (A3)		Loamy Mucky Mi					icky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Loamy Gleyed M				_	face (S7) (LRR K, M)
							e Below Surface (S8) (LRR K, L)
Stratified Layers (A5)		Depleted Matrix				_	
Depleted Below Dark Surface (A11)		Redox Dark Surfa	. ,			_	< Surface (S9) (LRR K, L)
Thick Dark Surface (A12)		Depleted Dark Su	urface (F7)			lron-Mag	ganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)		Redox Depression	ns (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)						Red Pare	ent Material (F21)
Stripped Matrix (S6)						🗌 Very Sha	llow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)					Other (e>	xplain in remarks)
Restrictive Layer (if observed):	\checkmark						
Type: Rock						hudria Cail Dracanta) Vec
Depth (inches): <u>12</u>					ŀ	Hydric Soil Present?	103
Remarks:							