WETLA	ND DETE	RMINATION DATA FO	ORM - North Central and	d Northeast Region			
Project/Site: I3_mainline	_ 0	ity/County: <u>Aitkin</u>		Sampling Date:	Sampling Date: 2017-06-02		
Applicant/Owner: Enbridge			State: Minnesota	Sampling Point:	AIC5300a50U		
Investigator(s): DPT, MRG		Section, Township,	Range: S6, T47N, R22W				
Landform (hillslope, terrace, etc.): Rise			Local Relief (concave, cor	nvex, none): <u>VV</u>	Slope (%): 3-7%		
Subregion (LRR or MLRA):		Latitude: 0	Lor	ngitude: 0 Dat	um: NAD83		
Soil Map Unit Name: 625				NWI Classificatio	on: N/A		
Are climatic/hydrologic conditions on the	site typica	I for this time of year? (if no, explain in Remarks):		No		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd							
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro	logy <u>No</u>	naturally problematic?	(If needed, explain any ar	nswers in Remarks)			
SUMMARY OF FINDINGS - Attach site	map show	ing sampling point loca	tions, transects, importan	nt features, etc.			
Hydrophytic Vegetation Present?		No	Is the Sampled Area				
Hydric Soil Present?		No	within a Wetland?	No			
Wetland Hydrology Present?		No	If yes, optional Wetland S	Site ID:			
WETS analysis shows antecedent precip	itation bel	ow normal.					
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators (min	nimum of two required)		
Primary Indicators (minimum of one is rea	quired; che	eck all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1)	_	Water-Stained Leaves	(B9)	Drainage Patterns	Drainage Patterns (B10)		
High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trim Lines (B	Moss Trim Lines (B16)		
Saturation (A3)	_	Marl Deposits (B15)		Dry-Season Water	Dry-Season Water Table (C2)		
Water Marks (B1)	_	Hydrogen Sulfide Odo	or (C1)	Crayfish Burrows (C	Crayfish Burrows (C8)		
Sediment Deposits (B2)	_	Oxidized Rhizosphere	s on Living Roots (C3)	Saturation Visible o	n Aerial Imagery (C9)		
Drift Deposits (B3)	_	Presence of Reduced	Iron (C4)	Stunted/Stressed Pl	ants (D1)		
Algal Mat or Crust (B4)	_	Recent Iron Reduction	n in Tilled Soils (C6)	Geomorphic Positio	n (D2)		
Iron Deposits (B5)	_	Thin Muck Surface (C	7)	Shallow Aquitard (D	93)		
Inundation Visible on Aerial Imagery (B7)	_	Other (Explain in Rem	arks)	Microtopographic R	telief (D4)		
Sparsely Vegetated Concave Surface (B8)				FAC-Neutral Test (D	5)		
Field Observations:							
Surface Water Present?	No	Depth (inches)					
Water Table Present?	No	Depth (inches)					
Saturation Present?	No	Depth (inches)		Wetland Hydrology Present?	<u>No</u>		
(includes capillary fringe)							
Describe Recorded Data (stream gauge, n	nonitoring	well, aerial photos, prev	vious inspections), if availa	ble:			
Remarks:							
nemarks.							

VEGETATION - Use scientific names of plants.

Sampling Point: AIC5300a50U

		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)	
2.					Total Number of Dominant	
3.					Species Across All Strata: <u>4</u> (B)	
4.					Percent of Dominant Species	
					That Are OBL, FACW, or FAC: 25 (A/B)	
					Prevalence Index worksheet:	
					Total % Cover of: Multiply by:	
7		0	= Total Cover			
Carling (Charle Chartenny (DI	-+ c: 15	<u> </u>	= Total Cover		<u> </u>	
Sapling/Shrub Stratum (Plo						
					FACU species 80.00 x 3 320	
			·		UPL species 0.00 x 4 0	
3				·	Column Totals <u>100</u> (A) <u>380</u> (B)	
4			· . <u></u>		Prevalence Index = $B/A = 3.8$	
5					Hydrophytic Vegetation Indicators:	
6			·		1 - Rapid Test for Hydrophytic Vegetation	
7			<u></u>		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. Trifolium repens		30.00	Yes	FACU	supporting data in Remarks or on a separate sheet)	
2. Solidago canadensis		30.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
 Solidago gigantea 		20.00	Yes	FAC		
4. Poa pratensis		20.00	Yes	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
5.					Definitions of Vegetation Strata:	
6.					-	
					Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
					height (DBH), regardless of height.	
		-			Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or	
J					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						
		100	= 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? <u>No</u>	
4.						
4		0	=Total Cover			
D						
Remarks: (include photo n	umbers here or on a separate sheet.	.)				

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0

SOIL

Profile Descrip	tion: (Describe to the	depth nee	eded to document the	e indicat	or or co	nfirm th	he absence of indicators.)	
Depth	Matrix		Redox	Features		2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-15	10YR 3 3	100						
15-24	10YR 4 2	90	10YR 4 6	10	С	Μ	<u>cl</u>	
		_		_				
					<u></u>			
					<u></u>			
					·			
¹ Type: C=Concent	tration, D=Depletion, RM=	Reduced Ma	atrix, MS=Masked Sand Gr	ains.			² Location: PL=Pore Lining, M	I=Matrix
Hydric Soil Indica	tors:						Indicators for Problematic Hydric Soil ³ :	
Histosol (A1	L)		Polyvalue Below 149B)	Surface (S	8) (LRR R,	, MLRA	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic Epipe	don (A2)		Thin Dark Surface	e (S9) (LRF	R, MLRA	149B)	Coast Prairie Redox (A16)(LRR K, L, R)	
Black Histic			Loamy Mucky Mi				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen S			Loamy Gleyed M		(Dark Surface (S7) (LRR K, M)	
Stratified La							Polyvalue Below Surface (S8) (LRR K, L)	
—	,		Depleted Matrix					
	elow Dark Surface (A11)		Redox Dark Surfa				Thin Dark Surface (S9) (LRR K, L)	
_	Surface (A12)		Depleted Dark Su				Iron-Maganese Masses (F12) (LRR K, L, R)	
-	ky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)	
Sandy Gley	ed Matrix (S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
Sandy Redo	ox (S5)						Red Parent Material (F21)	
Stripped M	atrix (S6)						Very Shallow Dark Surface (TF12)	
Dark Surfac	e (S7) (LRR R, MLRA 1498)					Other (explain in remarks)	
Restrictive Layer (if observed):]					
Туре:						ŀ	Hydric Soil Present? No	
Depth (ir	nches):							
Remarks:					1			