	TLAND DETE				•		
Project/Site: SPP	City/County: Aitkin			Sampling Date: 2016-08-15			
Applicant/Owner: Enbridge		State: Minnesota Sampling Point: u-50n26w6-a10					
Investigator(s): ZCW/MGH		Section, Township, Range: S6, T50N, R26W					
Landform (hillslope, terrace, etc.): Ris	se	Local Relief (concave, convex, none): VL Slope (%): 0-2%					
Subregion (LRR or MLRA):		Latitude: 4	6.8298913352 Lon	ngitude: -93.68480	826 Datum:	NAD83	
Soil Map Unit Name: 204B		_		N	WI Classification:	N/A	
Are climatic/hydrologic conditions or	n the site typic	al for this time of year	r? (if no, explain in Remar	rks):	No)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or	r Hydrology <u>N</u>	o significantly distur	bed? Are "Normal Circun	mstances" present?	Yes		
Are Vegetation <u>No</u> , Soil <u>No</u> , or H	lydrology <u>No</u>	_ naturally problemati	ic? (If needed, explain ar	ny answers in Rema	arks)		
SUMMARY OF FINDINGS - Attach	site map sho	wing sampling point lo	ocations, transects, impo	ortant 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 Site ID:				
Remarks: (Explain alternative procee	dures here or	in a separate report.)	-				
Climatic conditions are "wet" based		,					
Climatic conditions are "wet" based		,					
Climatic conditions are "wet" based		,		Secondary	Indicators (minim	um of two required	
Climatic conditions are "wet" based	l on the result:	s of a WETS analysis.			Indicators (minim face Soil Cracks (B6)	um of two required	
Climatic conditions are "wet" based HYDROLOGY Wetland Hydrology Indicators:	l on the result:	s of a WETS analysis.	es (B9)	Sur		um of two required	
Climatic conditions are "wet" based HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one	l on the result:	s of a WETS analysis.		Suri	face Soil Cracks (B6)	um of two required	
Climatic conditions are "wet" based HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	l on the result:	s of a WETS analysis. neck all that apply) Water-Stained Leav)	Suri Drai Mos Dry-	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (
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Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: u-50n26w...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Quercus rubra	55.00	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)
2. Acer saccharum	15.00	Yes	UPL	Total Number of Dominant
3. Populus tremuloides	5.00	No	FAC	Species Across All Strata: <u>6</u> (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:
	75	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 0.00 x 2 0
1. Corylus cornuta	15.00	Yes	UPL	FACU species 85.00 x 3 340
2.				UPL species 45.00 x 4 225
3				Column Totals 135 (A) 580 (B)
4	-			Prevalence Index = $B/A = 4.2962962$
5				Hydrophytic Vegetation Indicators:
6.	-			1 - Rapid Test for Hydrophytic Vegetation
7.				no 2 - Dominance Test is > 50%
	15	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide
1. Eurybia macrophylla	20.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Carex woodii	15.00	Yes		Problematic Hydrophytic Vegetation ¹ (Explain)
3. Aralia nudicaulis	10.00	Yes	FACU	
4.			1/100	¹ 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
7				height (DBH), regardless of height.
8				
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				
	45	= 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.				
	0	=Total Cover		1
Remarks: (include photo numbers here or on a separate sheet.)			

Northcentral and Northeast Region – Version 2.0

SOIL

Profile Descrip Depth	tion: (Describe to the Matrix	depth nee		e indicato Features		nfirm th	e absence of ind	icators.)
(inches)	Color (moist)	%	Color (moist)	%	, Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3 2	100		70	Type	LOC	LS	Rendriks
6-24	10YR 4 3	100					LS	
¹ Type: C=Concen	tration, D=Depletion, RM=	Reduced Ma	atrix, MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=Matri
Hydric Soil Indica	tors:		Polyvalue Below	Surface /S			Indicators for P	Problematic Hydric Soil ³ :
Histosol (A	1)		149B)	Surface (S	0) (LNN N,	WILKA	2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)
Histic Epipe	edon (A2)		Thin Dark Surface	e (S9) (LRR	R, MLRA	149B)	Coast Prai	irie Redox (A16)(LRR K, L, R)
Black Histic	: (A3)		Loamy Mucky M	ineral (F1)	(LRR K, L)		🗌 5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)
Hydrogen S	Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surfa	ace (S7) (LRR K, M)
Stratified La	ayers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)
Depleted B	elow Dark Surface (A11)		Redox Dark Surfa	ice (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Dark	Surface (A12)		Depleted Dark Su	urface (F7)			Iron-Maga	anese Masses (F12) (LRR K, L, R)
Sandy Muc	ky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy Gley	ed Matrix (S4)						Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
Sandy Redo	эх (S5)						Red Parer	nt Material (F21)
Stripped M	atrix (S6)						Very Shall	low Dark Surface (TF12)
Dark Surfac	ce (S7) (LRR R, MLRA 149E	3)					Other (exp	plain in remarks)
Restrictive Layer	(if observed):]		T			
Туре:						ŀ	lydric Soil Present?	Νο
Depth (i	nches):						., ine con resent:	
Remarks:								

Site Photograph 1



Latitude: 46.8298771279369

Longitude: -93.6848204211273

Direction: South

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed:

Site Photograph 2



Latitude: 46.829849761023

Longitude: -93.684811787767

Direction: North

Remarks:

Upland

Cowardin Classification:

Circular 39:

Eggers & Reed: