		L. Aitkin	I and Northeast Region					
Project/Site: SPP	City/Count	ty: <u>Altkin</u>	Sampling Date: 2016-08-19					
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-50n26w18-e1					
Investigator(s): ZCW, MGH	Sec	Section, Township, Range: S18, T50N, R26W						
Landform (hillslope, terrace, etc.):	Depression	Local Relief (concave,	, convex, none): <u>CC</u> Slope (%): <u>0-2%</u>					
Subregion (LRR or MLRA):								
Soil Map Unit Name: 204B			NWI Classification: N/A					
Are climatic/hydrologic conditions	on the site typical for thi	is time of year? (if no, explain in Rem	narks): No					
Are Vegetation No_, Soil No_,	or Hydrology <u>No</u> signif	ficantly disturbed? Are "Normal Circ	cumstances" present? Yes					
Are Vegetation <u>No</u> , Soil <u>No</u> , or	r Hydrology <u>No</u> natural	lly problematic? (If needed, explain	any answers in Remarks)					
	• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·						
		npling point locations, transects, imp	portant features, etc.					
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area	Voc					
Hydric Soil Present?	Yes	within a Wetland?	Yes we for 26w18 o					
Wetland Hydrology Present?	Yes	If yes, optional Wetla	and Site ID: w-50n26w18-e					
Remarks: (Explain alternative prod Climatic conditions are "wet" bas	•	• •						
	•	• •						
Climatic conditions are "wet" bas	•	• •	Secondary Indicators (minimum of two requ					
Climatic conditions are "wet" bas	ed on the results of a WE	TS analysis.	Secondary Indicators (minimum of two requ					
Climatic conditions are "wet" bas HYDROLOGY Wetland Hydrology Indicators:	ne is required; check all th	TS analysis.						
Climatic conditions are "wet" bas HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or	ne is required; check all the yes Wate	TS analysis.	Surface Soil Cracks (B6)					
Climatic conditions are "wet" bas HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1)	ne is required; check all the yes wate	TS analysis. hat apply) ter-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)					
Climatic conditions are "wet" bas HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2)	ne is required; check all the variable of the results of a WE	TS analysis. hat apply) ter-Stained Leaves (B9) atic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)					
Climatic conditions are "wet" bas HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3)	ne is required; check all the version of a WE	TS analysis. hat apply) ter-Stained Leaves (B9) latic Fauna (B13) 1 Deposits (B15)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)					
Climatic conditions are "wet" bas HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ne is required; check all th yes Watu Aqua Mari Hydr Oxid	hat apply) ter-Stained Leaves (B9) latic Fauna (B13) 1 Deposits (B15) irogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)					
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## **VEGETATION** - Use scientific names of plants.

Sampling Point: w-50n26w...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1. Fraxinus nigra	35	Yes	FACW	That Are OBL, FACW, or FAC: <u>1</u> (A)
2.				Total Number of Dominant
3				Species Across All Strata: <u>1</u> (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	35	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 15.00 x 2 30
1				FACU species 0.00 x 3 0
2				UPL species 0.00 x 4 0
3				Column Totals 15 (A) 30 (B)
4.				Prevalence Index = $B/A = 2$
5				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
6				yes 2 - Dominance Test is > 50%
7				yes 3 - Prevalence Index is $\leq 3.0^{1}$
	0	= Total Cover		
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1		·		
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		·	·	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless
4		·		disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				<b>Tree</b> - Woody plants 3 in. (.76 cm) or more in diameter at breast 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
12				woody plants less than 3.28 ft tall.
	0	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30 )				
1.				
2.				Hydrophytic
				Vegetation
3				Present?
4	0			
		=Total Cover		
Remarks: (include photo numbers here or on a separate sheet.	.)			

Northcentral and Northeast Region – Version 2.0

## SOIL

-	tion: (Describe to the	depth need				nfirm th	e absence of indica	ators.)
Depth (inches)	Matrix	%		Feature: %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Domortic
(inches) 0-24	Color (moist) 10YR 5 1	% 90	Color (moist) 4 4 6	‰ 10	C C	M	LS	Remarks
				- <u> </u>	<u> </u>			
					·			
					·			
					·			
<sup>1</sup> Type: C=Concent	ration, D=Depletion, RM	Reduced Mat	rix, MS=Masked Sand Gr	ains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix
Hydric Soil Indica	tors:		Daharahar Daharan	C	() <b>() DD D</b>		Indicators for Pro	blematic Hydric Soil <sup>3</sup> :
Histosol (A1	1)		Polyvalue Below : 149B)	surface (s	8) (LKK K	, IVILKA	2 cm Muck (	A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epipe	don (A2)		Thin Dark Surface	e (S9) <b>(LRI</b>	R, MLRA	149B)	Coast Prairie	e Redox (A16)( <b>LRR K, L, R</b> )
Black Histic	(A3)		Loamy Mucky Mi	neral (F1)	(LRR K, L)	)	5 cm Mucky	Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen S	ulfide (A4)		Loamy Gleyed Ma	atrix (F2)			Dark Surface	e (S7) ( <b>LRR K, M</b> )
Stratified La	ayers (A5)		Depleted Matrix	(F3)			Polyvalue Be	low Surface (S8) (LRR K, L)
Depleted Be	elow Dark Surface (A11)		Redox Dark Surfa	ce (F6)			Thin Dark Sur	rface (S9) ( <b>LRR K, L</b> )
Thick Dark S	Surface (A12)		Depleted Dark Su	rface (F7)			Iron-Magane	ese Masses (F12) (LRR K, L, R)
Sandy Muck	ky Mineral (S1)		Redox Depression	ns (F8)			Piedmont Flo	oodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Gleye	ed Matrix (S4)						Mesic Spodic	: (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy Redo	x (S5)						Red Parent N	Material (F21)
Stripped Ma	atrix (S6)						Very Shallow	v Dark Surface (TF12)
Dark Surfac	e (S7) <b>(LRR R, MLRA 149</b> E	3)					Other (expla	in in remarks)
Restrictive Layer (	if observed):							
Туре:						ŀ	lydric Soil Present? Ye	25
Depth (ir	nches):							
Remarks:								

Site Photograph 1



Latitude: 46.8211807357583

Longitude: -93.6849562917777

Cowardin Classification: PFO

Circular 39: 1

Remarks:

Direction: East

Eggers & Reed: Seasonally Flooded Basin

## Site Photograph 2



Latitude: 46.8211800232966

Longitude: -93.6849563755967

Cowardin Classification: PFO

Circular 39: 1

Remarks:

Direction: North

Eggers & Reed: Seasonally Flooded Basin