WETLAI	ND DETERMINATI	ON DATA FORM - North Cei	ntral and Northeast Regior	1				
Project/Site: SPP	City/County		-	Sampling Date: 2016-08-17				
Applicant/Owner: Enbridge		State: Minnesota	Sampli	ng Point: <u>w-50n26w7-n1</u>				
Investigator(s): ZCW, MGH	Sectio	on, Township, Range: S7, T50N	, R26W					
Landform (hillslope, terrace, etc.): Depres	sion	Local Relief (conca	ave, convex, none): <u>CC</u>	Slope (%): 0-2%				
Subregion (LRR or MLRA):		Latitude: 46.8395537836	Longitude: <u>-93.67992798</u>	Datum: NAD83				
Soil Map Unit Name: 292	NWI Classification: N/A							
Are climatic/hydrologic conditions on the	site typical for this t	time of year? (if no, explain in F	Remarks):	No				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd	rology <u>No</u> significa	antly disturbed? Are "Normal (Circumstances" present? Yes	-				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro	ology <u>No</u> naturally	problematic? (If needed, expl	ain any answers in Remarks)					
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present?	Yes	Is the Sampled Ar	ea					
Hydric Soil Present?	Yes	within a Wetland		Yes				
Wetland Hydrology Present?	Yes	If yes, optional We	etland Site ID:	w-50n26w7-n				
Remarks: (Explain alternative procedures	s here or in a separa	te report.)						
Climatic conditions are "wet" based on t	he results of a WETS	Sanalysis.						
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is rea	quired; check all tha	t apply)	Surface Sc	il Cracks (B6)				
yes Surface Water (A1)				atterns (B10)				
yes High Water Table (A2)	High Water Table (A2) Aquatic Fauna (B13)		Moss Trim	Moss Trim Lines (B16)				
yes Saturation (A3)	uration (A3) Marl Deposits (B15)		Dry-Seasor	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrog	gen Sulfide Odor (C1)	Crayfish Bu	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)			Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Deposits (B3) Presence of Reduced Iron (C4)		Stunted/Str	ressed Plants (D1)				
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)		yesGeomorphi	yes Geomorphic Position (D2)				
Iron Deposits (B5)	Thin M	luck Surface (C7)	Shallow Aq	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)								
Sparsely Vegetated Concave Surface (B8)			<u>Yes</u> FAC-Neutra	l Test (D5)				
Field Observations:								
Surface Water Present?	Yes De	pth (inches) 2						
Water Table Present?	Yes De	pth (inches) 0						
Saturation Present?	Yes De	pth (inches) 0	Wetland Hydrology P	resent? Yes				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, n	nonitoring well, aeri	al photos, previous inspections), if available:					

Remarks:

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.		·		That Are OBL, FACW, or FAC: 3 (A)	
2.				Total Number of Dominant	
3.				Species Across All Strata: 3 (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:	
	0	= Total Cover		OBL species 50.00 x 1 50	
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 60.00 x 2 120	
1. Fraxinus nigra	10.00	Yes	FACW	FACU species 0.00 x 3 0	
2.				UPL species 0.00 x 4 0	
3.				Column Totals 110 (A) 170 (B)	
4			· ·	Prevalence Index = B/A = 1.54545455	
5				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.				yes 2 - Dominance Test is > 50%	
	10	= Total Cover		yes 3 - Prevalence Index is $\leq 3.0^{1}$	
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide	
1. Calamagrostis canadensis	50.00	Yes	FACW	supporting data in Remarks or on a separate sheet)	
2. Carex retrorsa	50.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
3				¹ Indicators of hydric soil and wetland hydrology must be present, unless	
4				disturbed or problematic.	
				Definitions of Vegetation Strata:	
				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					
	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>Yes</u>	
4.		·			
	0	=Total Cover			
Remarks: (include photo numbers here or on a separate sheet.	.)				

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SOIL

Profile Descript	tion: (Describe to the Matrix	depth nee		e <mark>indica</mark> t Feature		nfirm th	e absence of ind	licators.)	
(inches) 0-25	Color (moist) 10YR 2 1	% 100	Color (moist)	%	Type ¹	Loc ²	Texture M	Remarks	
25-30	10YR 4 2	95	10YR 5 6	5	c	M	LS		
		·							
						·			
						·			
		·				·			
						·			
¹ Type: C=Concent	tration, D=Depletion, RM	Reduced Ma	trix, MS=Masked Sand G	rains.				² Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indica	tors:		Polyvalue Below	Surface ((1 DD D	MIRA	Indicators for I	Problematic Hydric Soil ³ :	
Histosol (A1	L)		149B)	Surface (.	50) (LNN N	, WILKA	2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)	
Histic Epipe	don (A2)		Thin Dark Surfac	e (S9) (LR	R R, MLRA	149B)	Coast Pra	irie Redox (A16)(LRR K, L, R)	
Black Histic	(A3)		Loamy Mucky M	ineral (F1) (LRR K, L)	5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen S	ulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surf	ace (S7) (LRR K, M)	
Stratified La	ayers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)	
Depleted Be	elow Dark Surface (A11)		Redox Dark Surface (F6)				Thin Dark Surface (S9) (LRR K, L)		
Thick Dark S	Surface (A12)		Depleted Dark Su	urface (F7)		Iron-Mag	anese Masses (F12) (LRR K, L, R)	
Sandy Mucl	ky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)	
Sandy Gleye	ed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)	
Sandy Redo	ox (S5)						Red Parei	nt Material (F21)	
Stripped Ma	atrix (S6)						Very Shal	low Dark Surface (TF12)	
Dark Surfac	e (S7) (LRR R, MLRA 149E	3)					Other (ex	plain in remarks)	
Restrictive Layer (if observed):]						
Туре:						H	Hydric Soil Present?	Yes	
Depth (ir	nches):								
Remarks:					I				

Site Photograph 1



Latitude: 46.8395480839972

Longitude: -93.6799254734942

Cowardin Classification: PEM

Circular 39: 1

Remarks:

Direction: North

Eggers & Reed: Seasonally Flooded Basin

Site Photograph 2



Latitude: 46.8395454017882

Longitude: -93.6799193547048

Direction: West

Remarks:

Cowardin Classification: PEM

Circular 39: 1

Eggers & Reed: Seasonally Flooded Basin