WI	ETLAND DET	ERMINATION DATA	FORM - North Cer	ntral and Northe	east Region			
Project/Site: SPP	(City/County: Clearwater			Sampling Date: 2016-07-21			
Applicant/Owner: Enbridge			State: Minnesota		Sampling Point:	u-148n37w29-aa1		
Investigator(s): ZCW		Section, Townsh	hip, Range: <u>S 29, T 1</u> 4	48N, R 37W				
Landform (hillslope, terrace, etc.): S	ide Slope		Local Relief (conca	ave, convex, none)): VL	Slope (%): 3-7%		
Subregion (LRR or MLRA):		Latitude: 4	47.6070603495	Longitude: -95.	.39830757 Datı	um: NAD83		
Soil Map Unit Name: 718B					NWI Classificatio	n: N/A		
Are climatic/hydrologic conditions o	on the site typi	cal for this time of yea	ar? (if no, explain in F	Remarks):		Yes		
Are Vegetation <u>No</u> , Soil <u>No</u> , o	or Hydrology <u>N</u>	lo significantly distur	rbed? Are "Normal	Circumstances" pr	esent? Yes			
Are Vegetation <u>No</u> , Soil <u>No</u> , or I	Hydrology <u>No</u>	naturally problemat	tic? (If needed, expl	lain any answers ir	n Remarks)			
SUMMARY OF FINDINGS - Attack	h site map sho	wing sampling point l	locations, transects,	, important featur	es, etc.			
Hydrophytic Vegetation Present?		No	Is the Sampled Ar	rea				
Hydric Soil Present?		No within a Wetland?			No			
Wetland Hydrology Present?		No	If yes, optional We	etland Site ID:				
Remarks: (Explain alternative proce	dures here or	in a separate report.)	-					
HYDROLOGY								
Wetland Hydrology Indicators:				Seco	ondary Indicators (mir	nimum of two required)		
Primary Indicators (minimum of one	e is required: c	heck all that apply)			Surface Soil Cracks (B			
Surface Water (A1)	<u>, 10 - 040 22, .</u>	Water-Stained Leav	ves (B9)	—	Drainage Patterns (B10)			
High Water Table (A2)	-	Aquatic Fauna (B13		_	Moss Trim Lines (B16)			
Saturation (A3)		Marl Deposits (B15)	_	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1			Crayfish Burrows (C8)				
Sediment Deposits (B2)	Deposits (B2) Oxidized Rhizosphere				Saturation Visible on A	Aerial Imagery (C9)		
Drift Deposits (B3)	Drift Deposits (B3) Presence of Reduc			ed Iron (C4)Stunted/Stressed Plants (D1)				
Algal Mat or Crust (B4)	t or Crust (B4) Recent Iron Reduction			Tilled Soils (C6)Geomorphic Position (D2)				
Iron Deposits (B5)		Thin Muck Surface ((C7)	_	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imager	y (B7)	Other (Explain in Re	emarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surfac	e (B8)				FAC-Neutral Test (D5)			
Field Observations:	•••							
Surface Water Present?	<u>No</u>	Depth (inches	-					
Water Table Present?	No	Depth (inches				N -		
Saturation Present?	No	Depth (inches	5)	Wetland H	Hydrology Present?	<u>No</u>		
(includes capillary fringe) Describe Recorded Data (stream ga			inconcisions	-) if evellables				
Describe Recorded Data (stream ga	uge, monitorin	ig well, aerial photos, j	previous inspections	;), if available:				
Remarks:								

VEGETATION - Use scientific names of plants.

Sampling Point: u-148n37...

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1. Quercus alba	30		FACU	That Are OBL, FACW, or FAC: 0 (A)	
2.				Total Number of Dominant	
3				Species Across All Strata: 2(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:	
	30	= Total Cover		OBL species 0.00 x 1 0	
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 0.00 x 2 0	
1				FACU species 70.00 x 3 280	
2				UPL species 70.00 x 4 350	
3				Column Totals 140 (A) 630 (B)	
4.			·	Prevalence Index = $B/A = 4.5$	
5			·	Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7.				no 2 - Dominance Test is > 50%	
	0	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^{1}$	
Herb Stratum (Plot Size: 5)	<u> </u>			4 - Morphological Adaptations ¹ (Provide	
1. Carex woodii	70.00	Yes		4 - MORPHOLOgical Adaptations (Provide supporting data in Remarks or on a separate sheet)	
2. Eurybia macrophylla	30.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Trifolium repens	10.00	No	FACU		
	10.00	10	TACO	¹ Indicators of hydric soil and wetland hydrology must be present, unless	
4				disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6					
7				Tree - 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 woody plants less than 3.28 ft tall.	
12					
	110	= 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 No	
4.				Present?	
T	0	=Total Cover			
Remarks: (include photo numbers here or on a separate sheet.					
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SOIL

	tion: (Describe to the	depth nee				nfirm th	e absence of ind	licators.)	
Depth	Matrix			Features		2			
(inches)	Color (moist)	%	Color (moist)	%	Type⊥	Loc ²	Texture	Remarks	
0-5	10YR 3 1	100			·		VFS		
5-9	10YR 4 2	100			·		LS		
					·				
¹ Type: C=Concen	tration, D=Depletion, RM	Reduced Ma	trix, MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indica	tors:						Indicators for I	Problematic Hydric Soil ³ :	
Histosol (A:	1)		Polyvalue Below 149B)	Surface (S	8) (LRR R,	MLRA	2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)	
Histic Epipe	Histic Epipedon (A2)			R, MLRA	149B)	Coast Prairie Redox (A16)(LRR K, L, R)			
Black Histic	: (A3)		Loamy Mucky M	ineral (F1)	(LRR K, L)		📃 5 cm Mud	cky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen S	fide (A4) Loamy Gleyed Matrix (F2)				Dark Surface (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)		
	Surface (A12)		Depleted Dark Su				Iron-Mag	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	odic (TA6) (MLRA 144A, 145, 149B)	
Sandy Redo	ox (S5)						Red Pare	nt Material (F21)	
Stripped M	atrix (S6)						Very Shal	low Dark Surface (TF12)	
Dark Surfac	:e (S7) (LRR R, MLRA 149 E	3)					Other (ex	plain in remarks)	
Restrictive Layer	(if observed):	✓]		T				
Type: Rock							Hydric Soil Present?	No	
Depth (i	nches): <u>9</u>						iyane son resellt:		
Remarks:									
1									

Latitude:

Longitude: ____

Cowardin Classification: Circular 39:

Direction:

Remarks:

Eggers & Reed:

Latitude:

Cowardin Classification:

Circular 39:

Direction:

Longitude: ____

Remarks:

Eggers & Reed: