WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: L3R	City/County	Marshall		Sampling	Date: 2016-07-11		
Applicant/Owner: Enbridge	State: Min	State: Minnesota Sampling Point: u-156n46w7-aa1					
Investigator(s): ZCW	Section, Town	Section, Township, Range: S 7, T 156N, R 46W					
Landform (hillslope, terrace, etc.): Shoulder		ef (concave, con	Slope (%): 3-7%				
Latitude: 48.341822	_ itude: -96.620878	· · · · · · · · · · · · · · · · · · ·					
			_				
Datum: NAD83							
Soil Map Unit Name: 116F				NWI Classi	fication: N/A		
Are climatic/hydrologic conditions on the site	e typical for this t	ime of year? (if no, ex	olain in Remarks	s):	Yes		
Are Vegetation No , Soil No , or Hydrol	ogy NO signific	antly disturbed? Are '	'Normal Circum	stances" present? Yes			
, and regetation, on, and	og, <u> </u>	and, alstarbear rice	Tromai on cam				
Are Vegetation $\underline{\text{No}}$, Soil $\underline{\text{No}}$, or Hydrolog	gy <u>No</u> naturally	problematic? (If nee	ded, explain any	answers in Remarks)			
SUMMARY OF FINDINGS - Attach site ma	p showing samp	ing point locations, tr	ansects, import	ant features, etc.			
Hydrophytic Vegetation Present?	<u>No</u>	Is the San	npled Area				
Hydric Soil Present?	No_	within a V	Wetland?	1	No		
Wetland Hydrology Present?	<u>No</u>	If yes, opt	ional Wetland S	ite ID:			
Remarks: (Explain alternative procedures he	ere or in a separa	te report.)					
VEGETATION - Use scientific names of p							
	0.4	olute Dominant	Indicator	Dominance Test workshee	t:		
<u>Tree Stratum</u> (Plot Size: <u>30</u>) %C	over Species?	Status	Number of Dominant Speci			
1			_	That Are OBL, FACW, or FA			
2				Total Number of Dominant			
3			_	_ Species Across All Strata:			
4				Percent of Dominant Specie			
	0	= Total Cover		That Are OBL, FACW, or FA			
Sapling/Shrub Stratum (Plot Size: 15)				Prevalence Index workshe	et:		
1				Total % Cover of:	Multiply by:		
2				OBL species	<u>0.00</u> x 1 <u>0</u>		
3				FACW species	<u>0.00</u> x 2 <u>0</u>		
4				FACU species	<u>10.00</u> x 3 <u>120</u>		
5			_	UPL species	70.00 x 4 <u>350</u>		
	0	= Total Cover		Column Totals	<u>110</u> (A) <u>500</u> (B)		
Herb Stratum (Plot Size: 5				Prevalence Inc	dex = B/A = <u>4.5454545</u>		
1. Bromus inermis	70.00	Yes	UPL	_ Hydrophytic Vegetation Inc	dicators:		
2. Lotus corniculatus	20.00	No No	FACU	no 1 - Rapid Test for H	Hydrophytic Vegetation		
3. Equisetum arvense	10.00	No No	FAC	no 2 - Dominance Tes	t is > 50%		
4. Trifolium repens	5.00	No No	FACU	no 3 - Prevalence Inde	ex is ≤ 3.0 ¹		
5. Toxicodendron radicans	5.00	No No	FACU		Adaptations ¹ (Provide		
6				supporting data in Rem	arks or on a separate sheet)		
7			_	Problematic Hydrophytic Ve	egetation ¹		
8			_	(Explain)			
9.				¹ Indicators of hydric soil and wetla	nd hydrology must be present,		
<u> </u>			_	unless disturbed or problematic.			
10				=			
	110	= Total Cover					
Woody Vine Stratum (Plot Size: 30							
1			_	-			
2			_	_			
	0	= Total Cover					
% Bare Ground in Herb Stratum				Hydrophytic Vegetation			
				Present?			
Remarks:							
inclinates.							

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SOIL Sampling Point: u-156n46...

· ·	tion: (Describe to the o	depth neede				nfirm the	e absence of ind	licators.)		
Depth	Matrix		Redox I	eatures		2				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
		· — —		·						
		· — —		·						
		·								
		·								
				_						
¹ Type: C=Concent	tration, D=Depletion, RM=F	Reduced Matrix	s, MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicat	tors:						Indicators	for Problematic Hydric Soil ³ :		
Histosol (A	1)		Sandy Gleyed	d Matrix (S	54)		1cm	Muck (A9) (LRR I, J)		
Histic Epipe	edon (A2)		Sandy Redox	(S5)			☐ Coast	Prairie Redox (A16)(LRR K, L, R)		
Black Histic	c (A3)		Stripped Mat	rix (S6)			☐ Dark S	Surface (S7) (LRR G)		
	Sulfide (A4)			my Mucky Mineral (F1) (LRR K, L) High Plains Depressions (F16)						
Stratified L						√, ∟ ,				
			Loamy Gleye		F2)			outside of MLRA 72 & 73)		
1cm Muck	(A9) (LRR F, G, H)		☐ Depleted Ma	trix (F3)				ced Vertic (F18)		
Depleted B	Below Dark Surface (A11)		Redox Dark S	urface (F6	i)		☐ Red P	arent Material (F21)		
Thick Dark	Surface (A12)		Depleted Da	k Surface	(F7)		☐ Very S	Very Shallow Dark Surface (TF12)		
Sandy Muc	cky Mineral (S1)		Redox Depre	ssions (F8)		Other	Other (explain in remarks)		
2.5cm Mud	cky Peat or Peat (S2)(LRR G	i, H)	High Plains D	epression	s (F16)		3			
5cm Muck	y Peat or Peat (S3) (LRR F)		(MLRA 72	& 73 of L	RR H)			of hydrophytic vegetation and drology must be present, unless		
· ·								or problematic.		
Restrictive Layer (if present):									
Туре:								No.		
Depth (inc	ches):					н	ydric Soil Present?	NO		
Remarks:										
Sample point take	en on road shoulder. No soi	il pit.								
HYDROLOG	Υ									
	ology Indicators:									
	ors (minimum of one is	s required; c		,			Seco	ondary Indicators (minimum of two required)		
Surface W	• •	-	Salt Crust (B11)				_	Surface Soil Cracks (B6)		
Saturation	er Table (A2)	-	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)				_	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)		
Water Ma	• •	-	Dry-Season Water Table (C2)				_	Oxidized Rhizospheres on Living Roots (C3)		
Sediment		-	Oxidized Rhizos			ots (C3)	_	(where tilled)		
Drift Depo		•	(where not tilled		-			Crayfish Burrows (C8)		
Algal Mat	or Crust (B4)	<u>-</u>	Presence of Reduced Iron (C4)				_	Saturation Visible on Aerial Imagery (C9)		
Iron Depos	sits (B5)		Thin Muck Surface (C7)				_	Geomorphic Position (D2)		
Water-Sta	ained Leaves (B9)	-	Other (Explain in Remarks)				_	FAC-Neutral Test (D5)		
Inundation	n Visible on Aerial Imagery	(B7)					_	Frost-Heave Hummocks (D7) (LRR F)		
Field Observati										
Surface Water		No No	Depth (inc							
Water Table Pr		No No	Depth (inc				Motlord	Hvdrology Present? No		
Saturation Pres		140	Depth (inc				wetiand	Hydrology Present? No No		
L(includes capilla	ary fringe)									
(includes capillate) Describe Recor	ary fringe) ded Data (stream gaug	e, monitorin	g well, aerial photo	os, previo	ous inspe	ections),	if available:			
		e, monitorin	g well, aerial photo	os, previo	ous inspe	ections),	if available:			
		e, monitorin	g well, aerial photo	os, previo	ous inspe	ections),	if available:			
Describe Recor		e, monitorin	g well, aerial photo	os, previo	ous inspe	ections),	if available:			

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Latitude:	48.341822
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Cowardin Classification:

Longitude: -96.620878

Circular 39:

Direction: Southeast

Eggers & Reed:

Remarks:

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Site Photograph 2



Latitude: 48.341822

Cowardin Classification:

Longitude: <u>-96.620878</u>

Circular 39:

Direction: Northwest

Eggers & Reed:

Remarks:

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