WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/28/14	
Applicant:		Enbridge			0 .	· · · / · · · · · · · · ·	A DD\	NAL DA ===		County:	Marshall	
Investigators		KRG/NTT			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I130A				I D - I' - ('I Classification:	·			450:: 40:::20 -4	
Landform:	Shoulder 3 - 7%		1 atituda, 10		ocal Relief		2244	Dotum		Sample Point	u-158n48w36-a1	
Slope (%):		onditions on the site	Latitude: 48.4			: -96.789		Datum: ☑ Yes	□ No	Section:		
										1		
Are Vegetati Are Vegetati			•	ly disturbed? roblematic?		All	e normal circun ☑ Yes	□ No	29 6 111.	Township:	Dir:	
SUMMARY (Haturally p	iobiematic:			<u> </u>	□ 1 1 0		Range:	DII.	
Hydrophytic			No					Hydric Soil	ls Present?	No		
Wetland Hyd	•		No		_					t Within A W	etland? No	
Remarks:		point is located on		ween an agr	icultural fiel	ld and a i	roadside ditch					
Tromanio.	THO apiana		а оторо вос	woon an agr	ioaitarai noi	ia ana a i	readerde ditern	vogotation		graded arra r	01001	
HYDROLOG	Υ											
		licatora (Chaak all t	that apply I	dinimum of a	no primory	or two o		rod\.				
Primary	•	licators (Check all t	that apply, i	viinimum oi c	one primary	or two s	secondary requi	rea):	Secondary:			
	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqu		а				Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M						ater Table	Pooto (not till	, 0		Rhizospheres on Living Roots	(tilled)
	B2 - Sedimer B3 - Drift Der	•					spheres on Living educed Iron	Roots (not till	, –	C8 - Crayfish I	n Visible on Aerial Imagery	
	B4 - Algal Ma				. C7 - Thin				_	D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Exp	plain)				D5 - FAC-Neu	tral Test	
		on Visible on Aerial Ima	agery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Obser	vations:											
		Vaa 👨	Dan	4L.	(in)							
Surface Wat		Yes □ Yes □		th:	(in.)			Wetland H	lydrology	Present?	N	
Water Table		Yes □ Yes □		th: th:	(in.) (in.)							
					_ `							
	<u> </u>	stream gauge, monit			orevious ins	pections)	l , if available:					
Describe Rec Remarks:	<u> </u>	stream gauge, monitors of wetland hydro			previous ins	pections)	, if available:					
Remarks:	<u> </u>				previous ins	pections)	, if available:					
Remarks:	No indicato	rs of wetland hydro	logy were o	bserved.				adicators \				
Remarks: SOILS Profile Descr	No indicato	rs of wetland hydro	logy were o	bserved.	dicator or c	onfirm th	ne absence of in					
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Remarks: SOILS Profile Descr (Type: C=Conce	No indicato	ibe to the depth nee	logy were o	bserved. ument the in red/Coated San	dicator or c	onfirm th	ne absence of in Pore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descr	No indicato	ibe to the depth needletion, RM=Reduced Markix Matrix Color (Moist)	eded to doc	ument the in red/Coated San	dicator or c d Grains; Loca	onfirm th ation: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	Texture		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicato	ibe to the depth neelletion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doc htrix, CS=Cove	bserved. ument the in red/Coated San Color	dicator or c d Grains; Loca (Moist) e not preser	onfirm theation: PL=P	ne absence of in Pore Lining, M=Matr les Type	Location	C Indicators f	or Problemation		
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-18	iption (Description, D=Dep Hue_10YR A1- Histosol A2 - Histic Ep	ibe to the depth needletion, RM=Reduced Markix Color (Moist) 2/1 I Indicators (cheedletion)	eded to doc htrix, CS=Cove	bserved. ument the in red/Coated San Color Color Solution Solution Color	dicator or cod Grains; Local (Moist) e not preser Redox ed Matrix	onfirm the ation: PL=P Mottl % nt):	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicato iption (Description, D=Dep Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi	ibe to the depth needletion, RM=Reduced Markix Color (Moist) 2/1 I Indicators (checking)	eded to doc htrix, CS=Cove	bserved. ument the in red/Coated San Color Color Solution Soluti	dicator or c d Grains; Loca (Moist) e not preser Redox ed Matrix Mucky Mine	onfirm the ation: PL=P Mottl % nt):	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.) 0-18 NRCS Hydr	No indicato iption (Description, D=Dep Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth needletion, RM=Reduced Marking Matrix Color (Moist) 2/1 I Indicators (checking Sulfide)	eded to doc atrix, CS=Cove	bserved. ument the in red/Coated San Color Color Solution Soluti	dicator or cod Grains; Local (Moist) e not preser Redox ed Matrix Mucky Mine Gleyed Matrix	onfirm the ation: PL=P Mottl % nt):	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	iption (Description, D=Deportration, D=Deportr	ibe to the depth need letion, RM=Reduced Markix Color (Moist) 2/1 I Indicators (check on Sulfide de Layers (LRR F)	eded to doc strix, CS=Cove	bserved. ument the in red/Coated San Color Color S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet	dicator or c d Grains; Loca (Moist) e not preser Redox ed Matrix Mucky Mine Gleyed Matrix ed Matrix	onfirm theation: PL=P Mottl % nt):	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ced Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth needletion, RM=Reduced Marking Matrix Color (Moist) 2/1 I Indicators (checking Sulfide)	eded to doc strix, CS=Cove	bserved. ument the in red/Coated San Color Color S5 - Sandy S6 - Strippe S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox	dicator or cod Grains; Local (Moist) e not preser Redox ed Matrix Mucky Mine Gleyed Matrix	onfirm thation: PL=P Mottl % nt): ral rix e	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth needletion, RM=Reduced Markix Color (Moist) 2/1 I Indicators (cheed in Sulfide	eded to doc strix, CS=Cove	bserved. ument the in red/Coated San Color Color S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox	dicator or cod Grains; Local (Moist) Redox ed Matrix Mucky Mine of Gleyed Matrix Dark Surface ded Dark Surface Depressions	onfirm theation: PL=P Mottl % nt): ral rix e ace	ne absence of in Pore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-158n48w36-a1		
VEGETATIO		e non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)						
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet		
1.							
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)		
3.							
4.					Total Number of Dominant Species Across All Strata: 2 (B)		
5.					``		
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)		
7.					(742)		
8.					Prevalence Index Worksheet		
9.							
10.					Total % Cover of: Multiply by:		
10.	Total Cayon				OBL spp.		
	Total Cover =	0	FACVV spp. $\frac{0}{\sqrt{2}}$ \times $2 = \frac{0}{\sqrt{2}}$				
					OBL spp. 0		
	Stratum (Plot size: 15 ft. radius)				FACU spp. 20 $x = 4$ 80		
1.					UPL spp. $80 X 5 = 400$		
2.							
3.					Total 110 (A) 510 (B)		
4.							
5.					Prevalence Index = $B/A = 4.636$		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					Dominance Test is > 50%		
10.	 Total Cover =	0					
	Total Cover =	0	<u> </u>		Prevalence Index is ≤ 3.0 *		
_					Morphological Adaptations (Explain) *		
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Bromus inermis	40	Υ	UPL			
2.	Medicago sativa	40	Υ	NI	* Indicators of hydric soil and wetland hydrology must be		
3.	Sonchus arvensis	10	N	FAC	present, unless disturbed or problematic.		
4.	Poa pratensis	10	N	FACU	Definitions of Vegetation Strata:		
5.	Taraxacum officinale	5	N	FACU			
6	Elymus repens	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast		
7.					height (DBH), regardless of height.		
8.							
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
10.					Supming/Sin als		
11.							
					Herb - All herbaceous (non-woody) plants, regardless of size.		
12.					Terp - All Herbaceous (Horr-woody) plants, regardless of size.		
13.							
14.							
15.					Woody Vines - All woody vines, regardless of height.		
	Total Cover =	110					
Woody Vine S	tratum (Plot size: 30 ft. radius)						
1.							
2.							
3.					Hydrophytic Vegetation Present? N		
5.							
4.							
4.	Total Cover =	0					
Damandar			-14-14	d = = - 4l= 1			
Remarks:	Vegetation is a mix of grasses and forbs don	ninated by	airaita and	smooth I	prome.		
Additional I	Remarks:						