## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/31/14	
Applicant:		Enbridge								County:	Marshall	
Investigators	:	KRG/NTT			Subregio	on (MLR <i>A</i>	or LRR):	MLRA 56		State:	MN	
Soil Unit:	123A					NW	I Classification	: <u></u>				
Landform:	Talf				ocal Relief					Sample Point:	u-157n47w22-a1	
Slope (%):	0 - 2%		Latitude: 48			-96.714		Datum:				
		nditions on the sit	<u> </u>		•	_	· · · · · · · · · · · · · · · · · · ·		□ No	Section:		
Are Vegetation		□, or Hydrology		ntly disturbed	•	Are	e normal circur	-	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally p	problematic?			Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDING:	S										
Hydrophytic \	Vegetation P	resent?	No						ls Present?			
Wetland Hyd	Irology Prese	nt?	No					Is This Sar	mpling Poin	t Within A We	etland? <b>No</b>	
Remarks:	The upland	point is located at	t the edge o	f an agricultu	al field plar	nted in su	igar beets. Ve	getation is d	ominated by	y wild rye.		
<b>HYDROLOG</b>	Υ											
Wetland Hy	drology Ind	icators (Check all	ll that apply:	Minimum of	ne primary	or two s	econdary requi	red):				
Primary:	•	icators (Oncor an	ii tilat apply,	William Gr	ле ринату	OI two 3	ccoridary requi	10a).	Secondary:			
<u> </u>	A1 - Surface '	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks	
☐ A2 - High Water Table					B13 - Aqu	atic Fauna	ı			B8 - Sparsely \	Vegetated Concave Surface	
	A3 - Saturation			[		ogen Sulfic				B10 - Drainage		
	B1 - Water M			[		Season Wa		Deete (net till			Rhizospheres on Living Roots	(tilled)
	B2 - Sedimen B3 - Drift Dep	•		L			spheres on Living educed Iron	Roots (not till	• 🗆	C8 - Crayfish E	ourrows  No Visible on Aerial Imagery	
	B4 - Algal Ma					Muck Surfa			ä	D2 - Geomorpi		
	B5 - Iron Dep				Other (Ex				_	D5 - FAC-Neut		
	•	on Visible on Aerial Im	nagery			,				D7 - Frost-Hea	ved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Observ	vations:											
Surface Wate	er Present?	Yes □	De	pth:	(in.)			Wetland H	lydrology I	Present?	N	
Water Table	Present?	Yes □	De	pth:	(in.)			vvetiana i	iyarology i	resent:		
Saturation Pr	resent?	Yes □	De	pth:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, mon	nitoring well, a	aerial photos,		pections),	l , if available:					
				•		pections),	, if available:					
Describe Reco		stream gauge, mon		•		pections),	if available:					
Remarks:				•		pections),	if available:					
Remarks:	No indicato	rs of wetland hydro	ology were	observed.	previous ins			ndicators.)				
Remarks:  SOILS Profile Descri	No indicato		eeded to do	observed.	previous ins	onfirm th	e absence of ir					
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro	eeded to do	observed.	previous ins	onfirm th	e absence of ir					
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro	eeded to do	observed.	previous ins	onfirm th	e absence of interest of interest in the contract of the contr					
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro be to the depth ne etion, RM=Reduced M	eeded to do	observed.  cument the inered/Coated San	previous ins	onfirm th	e absence of interest of interest in the contract of the contr		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydro be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo	observed.  cument the inered/Coated San	dicator or c	onfirm th ation: PL=P Mottl	e absence of in ore Lining, M=Mat	rix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato  ption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	eeded to doo	cument the inered/Coated San	dicator or c	onfirm th ation: PL=P Mottl	e absence of in ore Lining, M=Mat	rix)	Texture CL FS		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato  ption (Descriptration, D=Depl	rs of wetland hydro be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo	cument the in ered/Coated San	dicator or c	onfirm th ation: PL=P Mottl	e absence of in ore Lining, M=Mat	rix)	CL		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato  ption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	eeded to doo	cument the inered/Coated San	dicator or c	onfirm th ation: PL=P Mottl	e absence of in ore Lining, M=Mat	rix)	CL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-6	No indicato  ption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	eeded to doo	cument the inered/Coated San	dicator or c	onfirm th ation: PL=P Mottl	e absence of in ore Lining, M=Mat	rix)	CL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-6 6-18	No indicato  ption (Descriptration, D=Depl  Hue_10YR Hue_2.5Y	Matrix Color (Moist)  2/1 6/3	eeded to dog	cument the inered/Coated San	dicator or c d Grains; Loca	onfirm theation: PL=P	e absence of interest in the control of the control	rix)	CL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato  ption (Descriptration, D=Depl  Hue_10YR Hue_2.5Y	Matrix Color (Moist)  2/1 6/3	eeded to dog	cument the inered/Coated San	dicator or c d Grains; Loca	onfirm theation: PL=P	e absence of in ore Lining, M=Mat	rix)	CL FS		_	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6 6-18  NRCS Hydr	No indicato  ption (Description, D=Depl  Hue_10YR Hue_2.5Y	Matrix Color (Moist)  2/1 6/3	eeded to dog	cument the inered/Coated San Color C	dicator or c d Grains; Loca  (Moist)	onfirm theation: PL=P	e absence of interest in the control of the control	Location	CL FS	or Problematic	_	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-6 6-18  NRCS Hydr	ption (Description, D=Deplementation, D=Deplemen	Matrix Color (Moist)  2/1 6/3  Indicators (ch	eeded to dog	cument the ingred/Coated San Color C	dicator or c d Grains; Loca  (Moist) e not preser	onfirm theation: PL=P	e absence of interest in the control of the control	Location	CL FS Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6 6-18  NRCS Hydr	ption (Description, D=Deplementation, D=Deplemen	matrix Color (Moist)  2/1 6/3  Indicators (chains)	eeded to dog	cument the inered/Coated San Color C	dicator or cod Grains; Local  (Moist)  e not preser  Redox ed Matrix	onfirm the ation: PL=P  Mottl %  nt):	e absence of interest in the control of the control	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	: Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-6 6-18  NRCS Hydr	No indicato  ption (Descriptration, D=Depl  Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	matrix Color (Moist)  2/1 6/3  Indicators (chappedonestic	eeded to dog	cument the ingred/Coated San  Color	dicator or c d Grains; Loca  (Moist)  e not preser  Redox ed Matrix Mucky Mine	onfirm the ation: PL=P  Mottl %  nt):	e absence of interest in the control of the control	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox ( urface (LRR G)	: Soils <sup>1</sup> LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6 6-18  NRCS Hydr	htration, D=Deplementation, D=	matrix Color (Moist)  2/1 6/3  Indicators (chair)  Indicators (chair)  Layers (LRR F)	eeded to dog	cument the ingered/Coated Sandon Color Col	dicator or cod Grains; Local  (Moist)  e not preser  Redox ed Matrix Mucky Mine of Gleyed Matrix ed Matrix	monfirm the ation: PL=P  Mottl %  http://www.nthick	e absence of interest in the control of the control	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic	: Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-6 6-18  NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	matrix Color (Moist)  Indicators (chair)  Indicators (chair)  Indicators (chair)  Indicators (chair)  Indicators (chair)  Indicators (chair)	eeded to doo datrix, CS=Cove	cument the ingred/Coated Sanda Color	corevious instance dicator or condicator or condicator or condicator or condicator or condicators, Local (Moist)  Compared Moist or Condicators or Condicato	onfirm the ation: PL=P  Mottl %  nt):  ral rix e	e absence of interest in the control of the control	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressions ed Vertic Parent Material	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-6 6-18  NRCS Hydr	ption (Descriptration, D=Deplementation, D=Deple	matrix Color (Moist)  Indicators (chains a sulfide Layers (LRR FGH) and Below Dark Surface	eeded to doo datrix, CS=Cove	indicators are  S5 - Sandy  S6 - Stripp  F1 - Loamy  F2 - Loamy  F3 - Deplet  F6 - Redox	corevious instance of	onfirm the ation: PL=P  Mottl %  nt):  ral rix e ace	e absence of interest in the control of the control	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils <sup>1</sup> 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-157n47w22-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.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					ORL spp. 0 v 1 – 0			
10.	Total Cover =	0			FACW spp. 0 × 2 = 0			
	Total Gover =	0	_		FAC spp			
Combiner/Obrash	Ctuations (Diet aires, 45 ft, modice)				OBL spp. 0			
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{75}{}$ $\times$ $4 = \frac{300}{}$			
1.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2.								
3.					Total <u>75</u> (A) <u>300</u> (B)			
4.								
5.					Prevalence Index = B/A = 4.000			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	0			Prevalence Index is ≤ 3.0 *			
			_		Morphological Adaptations (Explain) *			
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Elymus repens	50	Υ	FACU	Problem riyarophytic vegetation (Explain)			
2.				FACU	* Indicators of hydric soil and wetland hydrology must be			
	Poa pratensis	15			present, unless disturbed or problematic.			
3.	Lotus corniculatus	5	N	FACU	·			
4.	Taraxacum officinale	5	N	FACU	Definitions of Vegetation Strata:			
5.					_			
6					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.								
11.								
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	75			1			
	Total Cover =	75	_					
	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?N			
5.								
4.								
	Total Cover =	0						
Remarks:	Vegetation is dominated by wild rye. A portio	n of the sa	mple plot	is bare gr	ound because it is on the edge of a cultivated field.			
Additional Pamarka								
Additional Remarks:								