## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/24/14		
Applicant:		Enbridge			0.1	/A 41 D A		MI DA 50		County:	Pennington		
Investigators		BCS/BEH			_Subregio	n (MLRA d	,	MLRA 56		State:	MN		
Soil Unit:	I19A				aal Daliafi		Classification	:		O I . D	4E4n4Ew42 h4		
Landform:	Side slope 3 - 7%		Latitude: 48.1		cal Relief:	-96.3772	965000	Dotum		Sample Point:	u-154n45w13-b1		
Slope (%):		nditions on the site						Datum ☑ Yes	□ No	Section:			
Are Vegetation	·	□, or Hydrology			<b>ai:</b> (ii 110, exp		normal circur			1			
Are Vegetation			•	•		Alei	lloimai circui ☑ Yes		esent:	Township: Range:	Dir:		
SUMMARY C			Haturally pi	oblematic:			E 163	□ NO		Range.	DII.		
Hydrophytic \			No					Hydric Soi	ils Present?	No			
Wetland Hyd	•		No No		_					t Within A We	etland? <b>No</b>		
Remarks:		sample point is lo		an agricultura	l alfalfa fie	ld unsland	e of the asso				Stiaria: 110		
rtomanto.	me apiana	cample point to tex	oatoa Witimi	ari agrioditara	i anana no	ia, apolopi		olatoa roade	side diteri w	stiaria.			
HYDROLOG	V												
				4				1)					
_	• • •	icators (Check all	i that apply; i	Viinimum of or	ne primary	or two sec	condary requi	red):	Casandamu				
<u>Primary:</u> □	<u>:</u>	Mater		Secondary  □ B11 - Salt Crust □							oil Cracks		
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturation	n			•	gen Sulfide	Odor			B10 - Drainage			
	B1 - Water M			□ C2 - Dry Season Water Table □ C3 - Oxidized Rhizospheres on Living Roots (not till □ □							C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen B3 - Drift Dep	•						Roots (not til	K	C8 - Crayfish E			
	B4 - Algal Ma			□ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □							<ul><li>C9 - Saturation Visible on Aerial Imagery</li><li>D2 - Geomorphic Position</li></ul>		
	B5 - Iron Dep				Other (Exp				_	D5 - FAC-Neut			
		n Visible on Aerial Im	nagery		` .	,				D7 - Frost-Hea	ved Hummocks (LRR F)		
	B9 - Water-St	tained Leaves											
Field Observ													
Surface Wate		Yes □	Dep		_ (in.)			Wetland F	- Hydrology I	Present?	N		
Water Table		Yes	•	th:	_ (in.)				.,		<u></u>		
Saturation Pr	resent?	Yes □	Dep	th:	(in.)								
					_								
Describe Reco	orded Data (s	stream gauge, moni	itoring well, a	erial photos, pr		pections), if	f available:						
Describe Reco	<u>`</u>	stream gauge, moni or secondary wetla			evious insp		f available:						
	<u>`</u>				evious insp		f available:						
Remarks:	No primary	or secondary wetla	and hydrolog	y indicators w	revious insp vere observ	ved.							
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary wetla	and hydrolog	y indicators w	revious insported observices of colors or colo	ved.	absence of ir						
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary wetla	and hydrolog	y indicators w	revious insported observices of colors or colo	ved.	absence of ir						
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary wetlands be to the depth ne	and hydrolog	y indicators w	revious insported observices	onfirm the	absence of ir						
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary wetlands be to the depth nestion, RM=Reduced Ma	eeded to doci	ument the ind	revious insported of colors in colors or color	onfirm the tion: PL=Por	absence of ir re Lining, M=Mat	rix)	Tavatura		Damarka		
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	or secondary wetlands be to the depth neletion, RM=Reduced Marrix Color (Moist)	eeded to doct atrix, CS=Cover	ument the indred/Coated Sand	revious insported of colors in colors or color	onfirm the	absence of ir				Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10	No primary  ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Marix  Color (Moist)	eeded to doctatrix, CS=Cover	ument the indred/Coated Sand Color (	revious insported of colors in colors or color	onfirm the tion: PL=Por	absence of ir re Lining, M=Mat	rix)	SCL		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR	or secondary wetlands be to the depth negation, RM=Reduced Matrix  Color (Moist)  2/1  3/2	eeded to doctatrix, CS=Cover	ument the ind red/Coated Sand  Color (	revious insported observing icator or configuration of configuration (Moist)	onfirm the tion: PL=Port	absence of in re Lining, M=Mat s Type	Location	SCL SL		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10	No primary  ption (Descriptration, D=Depl	or secondary wetlands be to the depth negation, RM=Reduced Matrix  Color (Moist)  2/1  3/2	eeded to doctatrix, CS=Cover	ument the ind	revious insported observing icator or configuration of configuration (Moist)	onfirm the tion: PL=Por	absence of ir re Lining, M=Mat	rix)	SCL		Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	Ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR	or secondary wetlands be to the depth negation, RM=Reduced Matrix  Color (Moist)  2/1  3/2  3/3	eeded to doctatrix, CS=Cover	ument the ind red/Coated Sand  Color (	revious insported observations of control of	Mottles	absence of in re Lining, M=Mat s Type	Location	SCL SL		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR Hue_10YR ic Soil Field	or secondary wetlands be to the depth negation, RM=Reduced Matrix  Color (Moist)  2/1  3/2  3/3	eeded to doctatrix, CS=Cover	ument the indicators was considered. Coated Sand Color ( 0 0 Hue_10YR	revious insported observations; Locate (Moist)  4/3  not present	Mottles	absence of in re Lining, M=Mat s Type	Location	SCL SL LS	or Problematic			
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21  NRCS Hydr	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  3/2  3/3  Indicators (ch	eeded to doctatrix, CS=Cover	ument the indred/Coated Sand Color ( 0 0 Hue_10YR	revious insported observations or configuration or configurations; Located observations (Moist)  Redox	Mottles	absence of in re Lining, M=Mat s Type	Location	SCL SL LS  Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21  NRCS Hydr	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary wetlands be to the depth negation, RM=Reduced Marix  Color (Moist)  2/1  3/2  3/3  Indicators (characters)	eeded to doctatrix, CS=Cover	ument the indicators we will be considered.  Color (000) Hue_10YR  andicators are selected.	revious insporer observations or configuration or configurations; Local (Moist)  Redox d Matrix	monfirm the tion: PL=Pore Mottles % 20	absence of in re Lining, M=Mat s Type	Location	SCL SL LS 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.) 0-10 10-18 18-21  NRCS Hydr	Ption (Descriptration, D=Deplementation, D=Deple	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  3/2  3/3  Indicators (characters)	eeded to doctatrix, CS=Cover	ument the ind ed/Coated Sand Color ( 0 Hue_10YR S5 - Sandy F S6 - Stripped F1 - Loamy F	revious insported observations of control of	mottles  Mottles  20  ti):	absence of in re Lining, M=Mat s Type	Location	SCL SL LS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	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.) 0-10 10-18 18-21  NRCS Hydr	Ption (Descriptration, D=Deplementation, D=Deple	or secondary wetlands be to the depth neetion, RM=Reduced Markix  Color (Moist)  2/1  3/2  3/3  Indicators (chairm of the color stick of Sulfide)	and hydrolog eeded to dock atrix, CS=Cover  % 100 100 80 neck here if in	ument the ind red/Coated Sand Color ( 0 0 Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C	revious insported observations; Located of Control of C	mottles  Mottles  20  ti):	absence of in re Lining, M=Mat s 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	: Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21  NRCS Hydr	htration, D=Deplementation, D=	or secondary wetlands be to the depth negation, RM=Reduced Mark  Matrix  Color (Moist)  2/1  3/2  3/3  Indicators (chain)  ipedon stic in Sulfide Layers (LRR F)	and hydrolog eeded to doct atrix, CS=Cover	ument the ind red/Coated Sand Color ( 0 0 Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Deplete	revious insported observations; Located Grains; Located Grains	monfirm the tion: PL=Port Mottles %	absence of in re Lining, M=Mat s 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 Depressioned Vertic	: Soils <sup>1</sup> LRR F, G, H)		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21	ption (Descriptration, D=Deplementation, D=Deple	be to the depth ne etion, RM=Reduced Marix  Matrix  Color (Moist)  2/1  3/2  3/3  Indicators (characters)  ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	and hydrolog eeded to dock atrix, CS=Cover	ument the indicators we ument the indicated Sand  Color (  Hue_10YR  Hue_10YR  S5 - Sandy R  S6 - Stripped F1 - Loamy R  F2 - Loamy R  F3 - Depleted F6 - Redox R  F7 - Depleted F8 - Redox R	revious insported of Matrix Mucky Mineral Matrix Mucky Mineral Matrix Mucky Mineral Matrix Mucky Mineral Matrix Dark Surface of Dark Surface of Dark Surface	mottles  Mottles  20  t):	absence of ir re Lining, M=Mati s Type	Location	Indicators of Page 14 Page 14 Page 14 Page 14 Page 14 Page 15 Page 15 Page 16	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)	⇒ present,	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21	ption (Descriptration, D=Deplementation, D=Deple	be to the depth ne etion, RM=Reduced Marix  Matrix  Color (Moist)  2/1  3/2  3/3  Indicators (characters)  ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	and hydrolog eeded to dock atrix, CS=Cover	ument the indicators we ument the indicated Sand  Color (  Hue_10YR  Hue_10YR  S5 - Sandy R  S6 - Stripped F1 - Loamy R  F2 - Loamy R  F3 - Depleted F6 - Redox R  F7 - Depleted F8 - Redox R	revious insported of Matrix Mucky Mineral Matrix Mucky Mineral Matrix Mucky Mineral Matrix Mucky Mineral Matrix Dark Surface of Dark Surface of Dark Surface	mottles  Mottles  20  t):	absence of ir re Lining, M=Mati s Type	Location	Indicators of Page 14 Page 14 Page 14 Page 14 Page 14 Page 15 Page 15 Page 16	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESOILS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface	⇒ present,	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w13-b1
VEGETATION (	· · ·	e non-native s	species.)		
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u></u>	<u>,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,</u>	<u></u>		
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:(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.		0			OBL spp. 0
	Total Cover	0	_		FAC spp. $\frac{2}{\sqrt{3}}$ $\frac{2}{\sqrt{3}}$
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACUSED $x = 4 = 0$
1.	Stratam (Flot size: Fort. radius)				UPL spp. $\frac{1}{85}$ $\frac{1}{25}$ $\frac{1}{25}$
2.					
3.					Total 87 (A) 429 (B)
4.					```
5.					Prevalence Index = B/A = 4.931
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Total Caver	0			Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
11. 1. 01. 11. 11.	District F (to see Proc)				Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)  Medicago sativa	45	Υ	NI	Problem Hydrophytic Vegetation (Explain) *
2.	Ambrosia artemisiifolia	35		NI	* Indicators of hydric soil and wetland hydrology must be
3.	Silene latifolia	5	 N	NI	present, unless disturbed or problematic.
4.	Hordeum jubatum	2	N	FACW	Definitions of Vegetation Strata:
5.	rioracam jacatam				
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.					All woods wines and being
15.	Tatal Ossas	07			Woody Vines - All woody vines, regardless of height.
	Total Cover =	87	_		
Manaka Vina Ct	return (Plat sine) 20 ft redive)				
1	ratum (Plot size: 30 ft. radius)				
2.				_	
3.					Hydrophytic Vegetation Present? N
5.				,	
4.					
	Total Cover =	0			
Remarks:	The upland sample area is dominated by cul-	tivated alfal	lfa and an	nual ragw	veed.
Additional R	Remarks:				