## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14	
Applicant:		Enbridge				(N. 41. D. /		14154.50		County:	Marshall	
Investigators		BJC/RAJ			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I15A				Lasal Dalis		I Classification	: PEMAd			455-, 4044	
Landform:	Talf 0 - 2%		Latitude: 48.	202152	Local Relief		1470	Deture		Sample Point	u-155n46w4-c1	
Slope (%):		nditions on the site				e: -96.569		Datum:	□ No	Section:		
Are Vegetation		✓, or Hydrology					e normal circur			Township:		
Are Vegetati			•	roblematic?			□ Yes	No ⊡ No	CSCIII:	Range:	Dir:	
SUMMARY O			calculating p	robicinatic:			L 163	E 110		rtange.	DII.	
Hydrophytic			No					Hydric Soi	Is Present?	<sup>o</sup> No		
	drology Prese		No.		<del></del>					nt Within A W	etland? <b>No</b>	
Remarks:				ed to sovbea	ns. The vec	netation is	s disturbed fror				is disturbed from till	lage. Though
		within an NWI poly	•	•	•							
HYDROLOG	•	, , , , , , , , , , , , , , , , , , ,	, 9011, 110 1110				p. 600					
		icators (Check all	I that apply:	Minimum of	one primary	or two s	econdary requi	ired):				
Primary		iodioio (oncon an	i triat apply,	iviii iii ii	one primary	01 1110 0	occinatify requi	100):	Secondary	:		
	A1 - Surface	Water			□ B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				•	atic Fauna					Vegetated Concave Su	urface
	A3 - Saturation B1 - Water M					ogen Sulfid Season Wa				B10 - Drainage	e Patterns Rhizospheres on Living	a Poots (tilled)
	B2 - Sedimer						spheres on Living	Roots (not till	l€ □	C8 - Crayfish I		g Roots (tilled)
	B3 - Drift Dep						educed Iron	(1.00.0		_	n Visible on Aerial Imag	gery
	B4 - Algal Ma					Muck Surf	ace			D2 - Geomorp		-
	B5 - Iron Dep		200011		□ Other (Ex	plain)				D5 - FAC-Neu		- <b>-</b> \
		on Visible on Aerial Im tained Leaves	nagery							D7 - Frost-Hea	aved Hummocks (LRR	(F)
	Do Water O	anioa Edavoo										
Field Obser	vations:											
Surface Wat	ter Present?	Yes □	Dep	oth:	(in.)			\A/a4lamal l	ludua la anz	Dunnant?	N1	
Water Table	Present?	Yes	•	oth:	(in.)			wetiand F	lydrology	Present?	N	
Saturation P	resent?	Yes □	Dep	oth:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	corded Data (s	stream gauge, moni	itoring well, a	erial photos.		pections).	 . if available:					
	<u>`</u>			<u>-</u>		pections)	, if available:					
Describe Rec Remarks:	<u>`</u>	stream gauge, moni		<u>-</u>		pections)	, if available:					
	<u>`</u>			<u>-</u>		pections)	, if available:					
Remarks:  SOILS Profile Descr	No indicato	rs of wetland hydro	ology were deeded to doo	bserved.	previous ins	onfirm th	ne absence of ir					
Remarks:  SOILS Profile Descr	No indicato	rs of wetland hydro	ology were deeded to doo	bserved.	previous ins	onfirm th	ne absence of ir					
Remarks:  SOILS Profile Descr	No indicato	rs of wetland hydro be to the depth ne etion, RM=Reduced Ma	ology were deeded to doo	bserved.	previous ins	confirm th	ne absence of in Pore Lining, M=Mat					
Remarks:  SOILS Profile Descr (Type: C=Concer	No indicato	rs of wetland hydro be to the depth ne etion, RM=Reduced Ma Matrix	eeded to doc atrix, CS=Cove	bbserved. cument the i	previous ins	confirm th ation: PL=P	ne absence of in Pore Lining, M=Mat	rix)	Toyturo		Pomarks	
Remarks:  SOILS Profile Descr (Type: C=Conce	No indicato	rs of wetland hydrouse to the depth ne etion, RM=Reduced Matrix Color (Moist)	eeded to doc atrix, CS=Cove	cument the i	previous ins	confirm th	ne absence of in Pore Lining, M=Mat		Texture		Remarks	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12	No indicato	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)	eeded to doo atrix, CS=Cove	cument the intered/Coated Sa	ndicator or ond Grains; Locator (Moist)	confirm thation: PL=P	ne absence of in Pore Lining, M=Mat les Type	Location	FSL		Remarks	
Remarks:  SOILS Profile Descr (Type: C=Conce	No indicato	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)	eeded to doc atrix, CS=Cove	cument the intered/Coated Sa	ndicator or ond Grains; Locator (Moist)	confirm th ation: PL=P	ne absence of in Pore Lining, M=Mat	rix)		Mixed matrix.	Remarks	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12	No indicato	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)	eeded to doo atrix, CS=Cove	cument the intered/Coated Sa	ndicator or ond Grains; Locator (Moist)	confirm thation: PL=P	ne absence of in Pore Lining, M=Mat les Type	Location	FSL	Mixed matrix.	Remarks	
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Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20	No indicato ription (Description, D=Deplementation, D=Deplementati	Matrix Color (Moist)  2/1 2/1	eeded to docatrix, CS=Cove	cument the intered/Coated Sa	previous ins	mottl  20	ne absence of in Pore Lining, M=Mat les Type	Location	FSL	Mixed matrix.	Remarks	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20	No indicato	Matrix Color (Moist)  2/1 2/1	eeded to doo atrix, CS=Cove	cument the intered/Coated Sa	previous ins	mottl  20	ne absence of in Pore Lining, M=Mat les Type	Location	FSL FSL			
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20  NRCS Hydr	No indicato  iption (Description, D=Deplementation, D=Deplementati	Matrix Color (Moist)  2/1 2/1	eeded to docatrix, CS=Cove	cument the intered/Coated Sandicators and indicators and indicator	previous ins	mottl  20	ne absence of in Pore Lining, M=Mat les Type	Location	FSL FSL	for Problemati		
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20	No indicato ription (Description, D=Deplementation, D=Deplementati	matrix Color (Moist)  2/1 2/1 Indicators (ch	eeded to docatrix, CS=Cove	cument the intered/Coated Sa	previous ins	mottl  20	ne absence of in Pore Lining, M=Mat les Type	Location	FSL FSL Indicators 1 A9 - 1 cm M	for Problemati	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.) 0-12 12-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	matrix Color (Moist)  2/1 2/1  Indicators (characters)	eeded to docatrix, CS=Cove	cument the intered/Coated Sandicators and S5 - Sando S6 - Stripport F1 - Loam	previous ins  ndicator or ond Grains; Local or (Moist)  YR 3/2  e not preser  y Redox  ped Matrix y Mucky Mine	mottl  20  nt):	ne absence of in Pore Lining, M=Mat les Type	Location	FSL FSL Indicators (A9 - 1 cm MA16 - Coast S7 - Dark S	for Problemation  Muck (LRR I, J)  t Prairie Redox  Surface (LRR G)	<b>c Soils<sup>1</sup></b> (LRR F, G, H)	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	matrix Color (Moist)  2/1 2/1  Indicators (characters)	eeded to doc atrix, CS=Cove	cument the intered/Coated Samuella Coated Samu	previous ins  ndicator or ond Grains; Local or (Moist)  YR 3/2  e not preser y Redox ped Matrix y Mucky Mine y Gleyed Matri	mottl  20  nt):	ne absence of in Pore Lining, M=Mat les Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation  Muck (LRR I, J)  t Prairie Redox  Surface (LRR G)  Plains Depression	<b>c Soils<sup>1</sup></b> (LRR F, G, H)	73)
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	matrix Color (Moist)  2/1 2/1  Indicators (characters)  Sipedon Stice of Sulfide Layers (LRR F)	eeded to doc atrix, CS=Cove	cument the intered/Coated Sarahaman	previous ins  ndicator or ond Grains; Local  or (Moist)  YR 3/2  e not preser  y Redox  ped Matrix y Mucky Mine y Gleyed Matrix eted Matrix	Mottl % 20 nt):	ne absence of in Pore Lining, M=Mat les Type	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduce	for Problemation  Muck (LRR I, J)  It Prairie Redox  Furface (LRR G)  Plains Depression	<b>c Soils<sup>1</sup></b> (LRR F, G, H)	73)
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Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	matrix Color (Moist)  Indicators (characters)	eeded to docatrix, CS=Cove	cument the intered/Coated Sarahaman Coated Coated Sarahaman Coated Coate	previous ins  ndicator or ond Grains; Locator (Moist)  or (Moist)  or (Moist)  or e not preser  y Redox  ped Matrix y Mucky Mine y Gleyed Matrix y Gleyed Matrix x Dark Surfaceted Dark Surfac	Mottl % 20  nt):	e absence of ir Pore Lining, M=Mateles Type C	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very	for Problemation  Muck (LRR I, J)  It Prairie Redox  Furface (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H) ons (LRR H, outside MLRA 72, 7	73)
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Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-12 12-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	matrix  Color (Moist)  Indicators (characters)  Indicators (characters)	eeded to docatrix, CS=Cove	cument the intered/Coated Sarahaman Coated Coated Sarahaman Coated Coate	previous ins  ndicator or ond Grains; Locator (Moist)  or (Moist)  or (Moist)  or e not preser  y Redox  ped Matrix y Mucky Mine y Gleyed Matrix y Gleyed Matrix x Dark Surfaceted Dark Surfac	Mottl % 20  nt):	e absence of ir Pore Lining, M=Mateles Type C	Location	FSL FSL  FSL  Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation  Muck (LRR I, J)  It Prairie Redox  Furface (LRR G)  Plains Depression  Ced Vertic  Parent Material  Of Shallow Dark Sain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) ons (LRR H, outside MLRA 72, 7	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n46w4-c1
					•
<b>VEGETATIO</b>	N (Species identified in all uppercase a	re 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:1 (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.					OBL spp 0
	Total Cover =	= 0	_		FACW spp. $0   x 2 = 0$
					OBL spp. 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{}$ $x = \underline{}$
1.					UPL spp. $100$ $x 5 = 500$
2.					
3.					Total 100 (A) 500 (B)
4.					
5.					Prevalence Index = B/A = 5.000
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.	Glycine max	100	Υ	NI	
2.			•		* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					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.					Sapinig/Sinub - Weedy Plante less than 8 in: 221, regardless of height.
					-
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - All Herbaceous (Horl-woody) plants, regardless of size.
13.				_	
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?N
5.					
4.					
	Total Cover =				
Remarks:	The upland is dominated by healthy soybea	ns.			
Additional R	Remarks:				