## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14						
Applicant:		Enbridge								County: State:	Marshall						
Investigators	<u> </u>				Subregion (MLRA or LRR): MLRA 56						MN						
Soil Unit:	157B			NWI Classification:													
Landform:	Talf		40		ocal Relief:		000			Sample Point:	u-155n46w2-f1						
Slope (%):	0 - 2%		Latitude: 48.		Longitude:			Datum:	- N.								
	· · · · · · · · · · · · · · · · · · ·	nditions on the site							□ No	Section:							
Are Vegetation		□, or Hydrology	•	•		Are	e normal circum	-	esent?	Township:	5.						
Are Vegetation		, ,	□aturally p	robiematic?			Yes	□ No		Range:	Dir:						
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? No Hydric Soils Present? No																	
	_		No		_						etland? <b>No</b>						
	drology Prese		No No	nall atrip of la	nd plantad	to alfalfa				t Within A We	eliano? <b>NO</b>						
Remarks: The upland sample point is located in a small strip of land planted to alfalfa. The area has been hayed recently.																	
HADBOLOC	<b>V</b>																
HYDROLOG																	
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):																	
<u>Primary</u>	_	A.L		_	D44 O.16	<b>0</b>			Secondary:								
	A1 - Surface \ A2 - High Wa				B11 - Salt ( B13 - Aqua					B6 - Surface S							
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	/egetated Concave Surface						
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Root	ts (tilled)					
	B2 - Sedimen	•			C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not tille		C8 - Crayfish E	Burrows	` ,					
	B3 - Drift Dep				C4 - Prese						Visible on Aerial Imagery						
	B4 - Algal Mat				C7 - Thin N		ace			D2 - Geomorph D5 - FAC-Neut							
	B5 - Iron Depo	วรแร n Visible on Aerial Im	nagery		Other (Exp	iairi)					ved Hummocks (LRR F)						
	B9 - Water-St		lagoly						_	27 110001100	vod Hammooko (Erkivi)						
Field Obser	vations:																
Surface Wat	er Present?	Yes	Dep	th:	(in.)												
Water Table		Yes □			(in.)			Wetland H	lydrology l	resent?	N						
Saturation P		Yes □	•		— (in.)												
Saturation Present? Yes   Depth: (in.)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																	
Docaribo Boo	orded Data (c	troom gougo monit	itoring well a			octions)	if available:										
	`			erial photos, p		ections),	if available:										
Describe Rec Remarks:	`	stream gauge, monit		erial photos, p		ections),	if available:										
Remarks:	`			erial photos, p		ections),	if available:										
Remarks:	No indicator	rs of wetland hydro	ology were o	erial photos, p	revious insp			dicators.)									
Remarks:  SOILS Profile Descri	No indicator		ology were o	erial photos, poserved.	revious insp	onfirm the	e absence of in										
Remarks:  SOILS Profile Descri	No indicator	be to the depth ne	ology were o	erial photos, poserved.	revious insp	onfirm the	e absence of in										
Remarks:  SOILS Profile Descri	No indicator	be to the depth ne	ology were o	erial photos, poserved.	revious insp	onfirm the	e absence of in ore Lining, M=Matri										
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth ne	ology were o	erial photos, possible baserved.  ument the incred/Coated Sand	revious insp	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks						
Remarks:  SOILS Profile Descri	No indicator	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	erial photos, possible between the incred/Coated Sand	dicator or co	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	ix)	Texture LFS		Remarks						
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	erial photos, possible between the incred/Coated Sand	dicator or co	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	ix)			Remarks						
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	erial photos, possible between the incred/Coated Sand	dicator or co	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	ix)			Remarks						
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-18	No indicator iption (Descri	be to the depth neetion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to doc atrix, CS=Cove	erial photos, poserved.  ument the incored/Coated Sando	dicator or co	Mottle	e absence of in ore Lining, M=Matri es Type	ix)			Remarks						
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18	No indicator	be to the depth neetion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to doc atrix, CS=Cove	erial photos, possible between the incred/Coated Sand	dicator or co	Mottle	e absence of in ore Lining, M=Matri	ix)	LFS	or Droblemetic							
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	No indicator iption (Descri	be to the depth neetion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to doc atrix, CS=Cove	erial photos, poserved.  ument the incorred/Coated Sandon  Color  o  ndicators are	dicator or configurations; Locate (Moist)	Mottle	e absence of in ore Lining, M=Matri es Type	Location	LFS Indicators f	or Problematic							
Remarks:  SOILS Profile Descric (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	No indicator iption (Descrintration, D=Depleted Price Soil Field A1- Histosol	be to the depth netion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (ch	eeded to doc atrix, CS=Cove	erial photos, poserved.  ument the incored/Coated Sandon  Color  O  ndicators are	dicator or configurations; Located (Moist)  Interpretation of the configuration of the config	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils¹						
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	No indicator iption (Descri	be to the depth neetion, RM=Reduced Marix  Color (Moist)  2/1  Indicators (chair)	eeded to doc atrix, CS=Cove	erial photos, poserved.  ument the incorred/Coated Sand  Color  Color  ored/Coated Sand  so Color  ored/Coated Sand	dicator or configurations; Located (Moist)  (Moist)  not presented Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	: Soils¹						
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (ch	eeded to doc atrix, CS=Cove	erial photos, poserved.  ument the incorred/Coated Sandon  Color  Color  Color  Solution  Solution  Color	dicator or configurations; Located (Moist)  Interpretation of the configuration of the config	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox ( urface (LRR G)	: <b>Soils<sup>1</sup></b> LRR F, G, H)						
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth neetion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (ch	eeded to doc atrix, CS=Cove	erial photos, poserved.  ument the incorred/Coated Sandon  Color  Color  Color  Solution  Solution  Color	mot presented Matrix Mucky Minera Gleyed Matrix	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ed Vertic	: Soils¹						
Remarks:  SOILS Profile Descrice (Type: C=Concert)  Depth (In.)  0-18  NRCS Hydr	Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth neetion, RM=Reduced Marix  Color (Moist)  2/1  Indicators (chair)  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to docatrix, CS=Cove	erial photos, poserved.  ument the incored/Coated Sand  Color  Color  So Color  So Sandy  So Strippe  F1 - Loamy  F2 - Loamy  F3 - Deplete  F6 - Redox	mot presented Matrix Mucky Minera Gleyed Matrix Dark Surface	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic arent Material	E Soils <sup>1</sup> LRR F, G, H)  INS (LRR H, outside MLRA 72, 73)						
Remarks:  SOILS Profile Descrice (Type: C=Concert  Depth (In.)  0-18  NRCS Hydr	Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	be to the depth neetion, RM=Reduced Marix  Matrix  Color (Moist)  2/1  Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface	eeded to docatrix, CS=Cove	erial photos, poserved.  ument the incored/Coated Sand  Color  Color  So Color  So Sandy  So Strippe  F1 - Loamy  F2 - Loamy  F3 - Deplete  F6 - Redox  F7 - Deplete	mot present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic arent Material Shallow Dark S	E Soils <sup>1</sup> LRR F, G, H)  INS (LRR H, outside MLRA 72, 73)						
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Remarks:  SOILS Profile Descrice (Type: C=Concerd)  Depth (In.)  0-18  NRCS Hydr	Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Marix  Matrix  Color (Moist)  2/1  Indicators (characteristic in Sulfide Layers (LRR F) ck (LRR FGH) depth Surface ark Surface ark Surface ark Surface ark Surface ark Peat (LRR F) cky Peat or Peat (LRR F) cky P	eeded to docatrix, CS=Cove	erial photos, poserved.  ument the incored/Coated Sand  Color  Color  S5 - Sandy  S6 - Strippe  F1 - Loamy  F2 - Loamy  F3 - Deplete  F6 - Redox  F7 - Deplete  F8 - Redox	mot present Mucky Minera Gleyed Matrix Dark Surface Depressions	Mottle  Mottle  kion: PL=Po	e absence of inore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks)	E Soils <sup>1</sup> LRR F, G, H)  INS (LRR H, outside MLRA 72, 73)  urface	e present,					
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-155n46w2-f1				
					•				
<b>VEGETATIO</b>	N (Species identified in all uppercase a	re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.					1				
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.					(742)				
8.					Prevalence Index Worksheet				
9.									
10.					Total % Cover of:  Multiply by:				
10.	Total Cayor				$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Total Cover =	= 0			FACW spp. $0 \times 2 = 0$				
0 " (0)					OBL spp. 0				
_	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 X 4 = 0				
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%				
10.	_ı Total Cover =	0			Prevalence Index is ≤ 3.0 *				
	Total Cover -		<del></del>						
11. 1. 0((	District of State Park				Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)	400		LIDI	Problem Hydrophytic Vegetation (Explain) *				
1.	Medicago sativa	100	Y	UPL					
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.					1				
11.					†				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.					-				
14.					-				
					Manada Minas All woody vines regardless of height				
15.	T. 1.0	400			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 =	0							
Remarks:	The upland is dominated by alfalfa that has		ntly haved						
Remarks. The upland is dominated by aliana that has been recently hayed.									
<del></del>									
A al al!4! ! =	Damaulaa.								
Additional Remarks:									