## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14	
Applicant:		Enbridge								County:	Marshall	
Investigators		BEH/NTT			Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I24A						I Classification:	· ·				
Landform:	Talf				ocal Relief:					Sample Point:	u-155n45w34-k1	
Slope (%):	0 - 2%		Latitude: 48.			-96.415		Datum		1		
		onditions on the site		-		1		Yes	□ No	Section:		
Are Vegetation				tly disturbed?	1	Are	e normal circun	-	esent?	Township:		
Are Vegetation			□aturally p	roblematic?			✓ Yes	□ No		Range:	Dir:	
SUMMARY C												
Hydrophytic \	•		No		<u> </u>				ils Present?		11 IO N	
Wetland Hyd			No	101 4 1 1				Is This Sa	mpling Poin	it Within A We	etland? <b>No</b>	
Remarks:	The upland	sample point is loc	cated in a ci	ultivated whea	at field.							
HYDROLOG'	Y											
Wetland Hy	drology Ind	icators (Check all	that apply;	Minimum of c	ne primary	or two se	econdary requi	red):				
Primary:									Secondary:			
	A1 - Surface				B11 - Salt					B6 - Surface S		
	A2 - High Wa A3 - Saturation				B13 - Aqua						/egetated Concave Surface	
	B1 - Water M				□ C1 - Hydro □ C2 - Dry S					B10 - Drainage	ะ Patterns Rhizospheres on Living Roots	s (tilled)
	B2 - Sedimer						spheres on Living	Roots (not til	le 🗆	C8 - Crayfish E		s (tilled)
	B3 - Drift Dep	•					duced Iron				Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorpl	nic Position	
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neut		
		on Visible on Aerial Ima tained Leaves	agery							D7 - Frost-Hea	ved Hummocks (LRR F)	
	b9 - water-s	tained Leaves										
Field Observ	vatione											
		V	Davi	415.	(in )							
Surface Wate		Yes		oth:	_ (in.)			Wetland I	Hydrology I	Present?	N	
Water Table Saturation Pr		Yes □ Yes □	Dep Dep	oth:	_ (in.)						<u>—</u>	
	resent/	Y A	I Jer	ith'	(117)							
			<u> </u>		(in.)							
		stream gauge, monit	<u> </u>			pections),	if available:					
	orded Data (s		toring well, a	erial photos, p	revious insp	ections),	if available:					
Describe Reco	orded Data (s	stream gauge, monit	toring well, a	erial photos, p	revious insp	pections),	if available:					
Describe Reco	orded Data (s	stream gauge, monit or secondary hydro	toring well, a	erial photos, p	previous insponserved.							
Describe Reconstruction Remarks:  SOILS Profile Descri	orded Data (s No primary iption (Descr	stream gauge, monitor secondary hydro	toring well, a	erial photos, p cators were c cument the inc	previous insposerved.	onfirm the	e absence of ir					
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Describe Reconstruction Remarks:  SOILS Profile Descri (Type: C=Concer	orded Data (s No primary iption (Descr	stream gauge, monitor secondary hydrouse to the depth neterion, RM=Reduced Matrix	toring well, a	erial photos, p cators were c cument the incored/Coated Sand	previous insposerved.  dicator or conditions; Local	onfirm the	e absence of ir ore Lining, M=Matr	ix)	Taytura		Remarks	
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Describe Recorder Remarks:  SOILS Profile Descri (Type: C=Concerd  Depth (In.) 0-12 12-21	orded Data (s No primary  iption (Descriptration, D=Depl  Hue_10YR Hue_10YR	stream gauge, monitor secondary hydrouse to the depth neterion, RM=Reduced Matrix  Color (Moist)  2/1 2/1	toring well, a ological indi	cators were comment the incored/Coated Sand	previous insposerved.  dicator or condicators; Local  (Moist)	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks	
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Describe Reco	iption (Description, Depointment)  Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History	stream gauge, monitor secondary hydrosibe to the depth neterion, RM=Reduced Matrix  Color (Moist)  2/1  2/1  5/1  Indicators (characters)	toring well, a cological indicated to documents, CS=Covered to document	cators were control of the control o	corevious insposerved.  dicator or condicator or condicato	mottle  Mottle  2  t):	e absence of inore Lining, M=Matrees  Type  C	Location	SCL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark So	luck (LRR I, J) Prairie Redox ( urface (LRR G)	: Soils <sup>1</sup> LRR F, G, H)	
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Describe Record Remarks:  SOILS Profile Descripe (Type: C=Concerd)  Depth (In.) 0-12 12-21 12-21  NRCS Hydr	iption (Descritration, D=Deplementation, D=Deple	stream gauge, monit or secondary hydro ibe to the depth ned etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  2/1  5/1  Indicators (check to be predoned assisting the sulfide of the stream of the sulfide of Layers (LRR F)	toring well, a cological indicated to documents, CS=Covered to document	cators were control co	corevious insposerved.  dicator or condicator or condicato	mottle  Mottle  2  t):	e absence of inore Lining, M=Matrees  Type  C	Location	SCL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic	: Soils <sup>1</sup> LRR F, G, H)	
Describe Reco	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth neetion, RM=Reduced Marix Color (Moist)  2/1  2/1  5/1  Indicators (characters)	toring well, a cological indicated to documents, CS=Covered to document	cators were control of the control o	corevious insposerved.  dicator or condicator or condicato	mottle  Mottle  2  t):	e absence of inore Lining, M=Matrees  Type  C	Location	SCL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	ESoils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)	
Describe Record Remarks:  SOILS Profile Descripe (Type: C=Concerd)  Depth (In.) 0-12 12-21 12-21  NRCS Hydr	iption (Descritration, D=Depleted A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleted A12 - Thick D	stream gauge, monit or secondary hydro ibe to the depth ned etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  2/1  5/1  Indicators (check constiction Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface Park Surface	toring well, a cological indicated to documents, CS=Covered to document	cators were control co	corevious insposerved.  Dicator or condicator or condicato	mottle  Mottle  %  2  t):  al  x  ace	e absence of inore Lining, M=Matrees  Type  C	Location	SCL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material	ESoils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)	
Describe Record Remarks:  SOILS Profile Descrip (Type: C=Concerd)  Depth (In.) 0-12 12-21 12-21 12-21	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	ibe to the depth neterion, RM=Reduced Matrix  Color (Moist)  2/1  2/1  5/1  Indicators (characters)  ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ick Below Dark Surface lucky Mineral	toring well, a cological indicated to documents, CS=Covered to document	cators were control co	corevious insposerved.  Dicator or condicator or condicato	mottle  Mottle  %  2  t):  al  x  ace	e absence of inore Lining, M=Matrees  Type  C	Location	SCL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si 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	ESoils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)	
Describe Record Remarks:  SOILS Profile Descrip (Type: C=Concerd)  Depth (In.) 0-12 12-21 12-21  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A1- Thick D S1 - Sandy M S2 - 2.5 cm M	ibe to the depth nedetion, RM=Reduced Matrix  Color (Moist)  2/1  2/1  5/1  Indicators (check the color of th	toring well, a cological indicated to documents, CS=Covered to document	cators were control co	corevious insposerved.  Dicator or condicator or condicato	mottle  Mottle  %  2  t):  al  x  ace	e absence of inore Lining, M=Matrees  Type  C	Location	SCL SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)	
Describe Record Remarks:  SOILS Profile Descripe (Type: C=Concerd)  Depth (In.) 0-12 12-21 12-21  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A1- Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	ibe to the depth neterion, RM=Reduced Matrix  Color (Moist)  2/1 2/1 5/1  Indicators (check Layers (LRR F) ick (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LR icky Peat or Peat (LR icky Peat or Peat (LR)	toring well, a cological indicated to documents, CS=Covered to document	cators were control co	corevious insposerved.  Dicator or condicator or condicato	mottle  Mottle  %  2  t):  al  x  ace	e absence of inore Lining, M=Matrees  Type  C	Location	SCL SCL C  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	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)  DNS (LRR H, outside MLRA 72, 73)	present,
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w34-k1
VEGETATION		re non-native	species.)		
Tree Stratum (	Plot size: 30 ft. radius)  Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>apealed realine</u>	<u> 70 00001</u>	Dominant	<u>ma.otatus</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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. $20   x   1 = 20$
	Total Cover =	0			FACW spp. $0   x 2 = 0$
			_		FACW spp. 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $10$ $x 4 = 40$
1.					UPL spp. $75$ $x = 375$
2.					
3.					Total 110 (A) 450 (B)
4.					
5.					Prevalence Index = B/A = 4.091
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) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	75	Y	NI	
2.	Beckmannia syzigachne	20	N	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Barbarea vulgaris	10	N	FACU	·
4.	Plantago major	5	N	FAC	Definitions of Vegetation Strata:
5.					T***
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7. 8.					Holghi (BBH), regardless of helghi.
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					Sapinig/Siliub - Woody Plante less than 6 int. 2211, Togaraless of Height.
11.					-
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					1.5.5
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	= 110			1
	10tai 20v0i -	110	_		
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.	(1 lot 6/26. Go Iti Taalas)				
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	Sample site is dominated by cultivated when	at.			
Additional R	Remarks:				