## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date: County:	06/24/14 Marshall
Investigators										State:	MN
Soil Unit:	I15A NWI Classification:										
Landform:	Side slope	Local Relief: VL Longitude: -96.566174966 Datum:					Sample Point:	u-156n46w33-a2			
Slope (%):	0 - 2%	nditions on the sit		3.29700729 r this time of ve	-			Datum: ☑ Yes	□ No	Section:	
Are Vegetation		□, or Hydrology				1	e normal circum			Township:	
Are Vegetation		□, or Hydrology	•	•			⊠ Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic V	Hydric Soils Present? No Is This Sampling Point Within A Wetland? No										
Wetland Hyd Remarks:		nt? sample point is lo	No No cated in a ti		al souhean	field		Is This Sar	mpling Poin	it within A we	etland? <b>No</b>
Remarks.					ai Suybean	neiu.					
HYDROLOG	Y										
Wetland Hy	/drology Indi	cators (Check al	ll that apply;	Minimum of o	ne primary	or two se	econdary requi	ed):			
Primary		Matar		_		Orwest			Secondary:		
	<ul> <li>A1 - Surface Water</li> <li>A2 - High Water Table</li> </ul>				B11 - Salt B13 - Aqua		l			B6 - Surface Se B8 - Sparsely \	legetated Concave Surface
	A3 - Saturation	n			C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage	Patterns
	B1 - Water Ma B2 - Sediment				C2 - Dry So C3 - Oxidiz		ater Table spheres on Living	Roots (not till	□ د □	C3 - Oxidized F C8 - Crayfish B	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•			C4 - Prese						Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin N		ace			D2 - Geomorph	
	B5 - Iron Depo B7 - Inundatio	osits n Visible on Aerial In	magery		Other (Exp	lain)				D5 - FAC-Neut D7 - Frost-Hea	ral Test ved Hummocks (LRR F)
	B9 - Water-St		nagory						_	21 110011104	
							1				
Field Observ			Da		(in )						
Water Table	er Present?	Yes □ Yes □		epth: epth:	_ (in.) (in.)			Wetland H	lydrology	Present?	Ν
Saturation P		Yes D		pth:	_ (in.) (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No primary or secondary wetland hydrology indicators were observed.											
Remarks:	No primary	or secondary wet	land hydrolo		-						
	No primary o	or secondary wet	land hydrolo		-		li avaliable.				
SOILS				ogy indicators v	vere observ	ved.		dicators )			
SOILS Profile Descri	iption (Descri	or secondary weth be to the depth ne etion, RM=Reduced M	eeded to do	ogy indicators v	vere observ	ved.	e absence of in				
SOILS Profile Descri	iption (Descri	be to the depth ne etion, RM=Reduced N	eeded to do	ogy indicators v	vere observ	ved. Onfirm the tion: PL=P	e absence of in ore Lining, M=Matr				
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix	eeded to doo Matrix, CS=Cove	ogy indicators v ocument the incorrect/Coated Sand	vere observ icator or co Grains; Loca	ved. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)			Domorika
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo Matrix, CS=Cove	cument the incorrect control of the incorrect	vere observ	ved. Onfirm the tion: PL=P	e absence of in ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doo Matrix, CS=Cove	cument the inc rered/Coated Sand % Color	vere observ icator or co Grains; Loca	ved. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-17	iption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1	eeded to doo Matrix, CS=Cove	bgy indicators v becument the inc vered/Coated Sand % Color 00 00	vere observ icator or co Grains; Loca	ved. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS LFS		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doo Matrix, CS=Cove	cument the inc rered/Coated Sand % Color	vere observ icator or co Grains; Loca	ved. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-17	iption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1	eeded to doo Matrix, CS=Cove	bgy indicators v becument the inc vered/Coated Sand % Color 00 00	vere observ icator or co Grains; Loca	ved. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS LFS		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-17 17-20	iption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 5/4	eeded to doo Matrix, CS=Cove	by indicators v becument the inc vered/Coated Sand % Color 00 00 00	vere observ	ved.	e absence of in ore Lining, M=Matr es Type	ix)	LFS LFS		Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-17 17-20 NRCS Hydr	iption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y ric Soil Field	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 5/4	eeded to doo Matrix, CS=Cove	by indicators v becument the incovered/Coated Sand % Color 00 00 00 00	icator or co Grains; Loca (Moist)	ved.	e absence of in ore Lining, M=Matr es Type	Location	LFS LFS FS	or Problematic	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-17 17-20	iption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 5/4 Indicators (cl	eeded to doo Matrix, CS=Cove	by indicators v becument the inc vered/Coated Sand % Color 00 00 00	icator or co Grains; Loca (Moist) (Moist) not presen Redox	ved.	e absence of in ore Lining, M=Matr es Type	Location	LFS LFS FS <u>Indicators f</u> A9 - 1 cm M	<b>or Problematic</b> luck (LRR I, J) Prairie Redox (L	<u>Soils<sup>1</sup></u>
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-17 17-20 NRCS Hydr	iption (Descrii ntration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 5/4 Indicators (cl ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	eeded to doo Matrix, CS=Cove	ogy indicators v         cument the incomposition         rered/Coated Sand         %       Color         00	icator or co Grains; Loca (Moist) (Moist) not presen Redox d Matrix Mucky Minera Gleyed Matrii d Matrix Dark Surface d Dark Surfa	ved.	e absence of in ore Lining, M=Matr es Type □	Location	LFS LFS FS Mage: Second State Sta	luck (LRR I, J) Prairie Redox (Ll urface (LRR G) Plains Depressio ced Vertic Parent Material	Soils <sup>1</sup> RR F, G, H) NS (LRR H, outisde MLRA 72, 73)
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-156n46w33-a2
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)	0/ 00000	Deminent	Ind Ctatus	Dominance Test Worksheet
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.	J				Prevalence Index Worksheet
9.					<u>Total % Cover of:</u> <u>Multiply by:</u>
10.					$\begin{array}{c} -\frac{1}{1000} \\ -\frac{1}{100$
	 Total Cover =	0			OBL spp.       0       x       1 =       0         FACW spp.       0       x       2 =       0         FAC spp.       0       x       3 =       0         FACU spp.       10       x       4 =       40
			$FAC spp. \qquad 0 \qquad x  3 = \qquad 0$		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 $x 4 = 40$
<u>1.</u>					UPL spp. $40$ X 5 = $200$
2.					1
3.					Total <u>50</u> (A) <u>240</u> (B)
4.					
5.					Prevalence Index = $B/A = 4.800$
6.					1
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0	0		Prevalence Index is ≤ 3.0 *
	_		_		Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	30	Y	NI	
2.	Triticum aestivum	10	Y	NI	* Indicators of hydric soil and wetland hydrology must be
3.	Setaria pumila	10	Y	FACU	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					<b>Sapling/Shrub -</b> 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.					4
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =_	50	_		
Woody Vine St	tratum (Plot size: 30 ft. radius)				-
1.					-
2.					
3. <i>F</i>					Hydrophytic Vegetation Present? N
5.	<u></u>				-
4.	Tatal Carra	0			
Pomorka	Total Cover =	0 cultural co	whoon fiel	di what i	is also present
Remarks:	The upland sample point is located in an agri	cultural so	ybean tiel	u, wheat Is	
Additional F	Remarks:				