## WETLAND DETERMINATION DATA FORM Great Plains Region

Applicant:		L3R Enbridge						MLRA 56		Date: County:	09/23/14 Marshall
Investigators					Subregio	•	State:	MN			
Soil Unit: Landform:					NWI Classificatio					 Sample Point:	u-155n45w34-b1
Slope (%):					Longitude:		3257876	Datum:			
		nditions on the site	e typical for t	his time of yea				☑ Yes	□ No	Section:	
Are Vegetation		☑, or Hydrology	•	•		Are	e normal circun		esent?	Township:	
Are Vegetatio		□, or Hydrology	□aturally pr	oblematic?			⊠ Yes	□ No		Range:	Dir:
SUMMARY C			No					Uvdria Sai	la Dracant?		
Hydrophytic V Wetland Hyd	-			-				ls Present?	nt Within A We	etland? <b>No</b>	
Remarks:		sample point is lo	No cated in a so	vbean field, a	diacent to	a seaso	nally-flooded ba		inping ron		
				<i>y.</i> 200 an 11010, at							
HYDROLOG	Y										
Wetland Hy Primary:			that apply; N	اinimum of on	e primary B11 - Salt B13 - Aqua	Crust		red):	Secondary	B6 - Surface S	oil Cracks √egetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Ma				C2 - Dry S			Deete (net till		C3 - Oxidized I	Rhizospheres on Living Roots (tilled)
	B2 - Sediment B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till	• •	C8 - Crayfish E	Burrows I Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin N					D2 - Geomorpl	hic Position
	B5 - Iron Depo				Other (Exp	olain)				D5 - FAC-Neut	
	B9 - Water-St	n Visible on Aerial Im ained Leaves	lagery							D7 - Frost-Hea	aved Hummocks (LRR F)
_											
Field Observ	vations:										
Surface Wate		Yes 🗆	Dept		(in.)			Wetland H	łydrology	Present?	Ν
Water Table		Yes D	Dept		(in.)				.,		
Saturation Present? Yes Depth: (in.)											
		tream gauge, moni	-		-	pections),	, if available:				
Describe Reco Remarks:		stream gauge, moni or secondary hydr	-		-	pections),	, if available:				
Remarks: SOILS	No primary	or secondary hydr	ological indic	ators were ob	served.						
Remarks: SOILS Profile Descri	No primary	or secondary hydr	eeded to docu	ators were ob ument the indi	served.	onfirm th	e absence of in				
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix	eeded to docu atrix, CS=Cover	ators were ob ument the indi ed/Coated Sand (	eserved. cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr	ix)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary of ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Cover	ators were ob ument the indi ed/Coated Sand ( Color (	served. cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	Location	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary of ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Cover	ators were ob ument the indi ed/Coated Sand ( Color ( Hue_10YR Hue_7.5YR	cator or co Grains; Loca Moist) 6/3 4/6	onfirm th tion: PL=P Mottl % 5 1	e absence of in Pore Lining, M=Matr es Type C C	Location M M	CL C	pebbles	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13	No primary of ption (Descrintration, D=Depletion Hue_10YR Hue_10YR	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3	eeded to docu atrix, CS=Cover % 95 64	ators were ob ument the indi ed/Coated Sand of Color ( Hue_10YR Hue_10YR Hue_10YR	cator or co Grains; Loca Moist) 6/3 4/6 2/1	onfirm th tion: PL=P Mottl % 5 1 35	e absence of in Pore Lining, M=Matr es Type C C C	Location M M M M	CL	pebbles Mixed matrix.	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No primary of ption (Descrintration, D=Deple	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3	eded to docu atrix, CS=Cover	ators were ob ument the indi ed/Coated Sand ( Color ( Hue_10YR Hue_10YR	cator or co Grains; Loca Moist) 6/3 4/6 2/1	onfirm th tion: PL=P Mottl % 5 1	e absence of in Pore Lining, M=Matr es Type C C	Location M M	CL C	pebbles	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13	No primary of ption (Descrintration, D=Depletion Hue_10YR Hue_10YR	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3	eeded to docu atrix, CS=Cover % 95 64	ators were ob ument the indi ed/Coated Sand of Color ( Hue_10YR Hue_10YR Hue_10YR	cator or co Grains; Loca Moist) 6/3 4/6 2/1	onfirm th tion: PL=P Mottl % 5 1 35	e absence of in Pore Lining, M=Matr es Type C C C	Location M M M M	CL C	pebbles Mixed matrix.	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13 13-21 NRCS Hydr	No primary of ption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3 7/2	eded to docu atrix, CS=Cover % 95 64 85	ators were ob ument the indi ed/Coated Sand of Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR	served. cator or co Grains; Loca Moist) 6/3 4/6 2/1 6/8	onfirm th tion: PL=P Mottl % 5 1 35 15	e absence of in Pore Lining, M=Matr es Type C C C	ix) Location M M M M	CL C C C	pebbles Mixed matrix. abundant pebbles	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13 13-21 NRCS Hydr	No primary of ption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Histic A4 - Hydroger	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3 7/2 Indicators (ch ipedon stic	eded to docu atrix, CS=Cover % 95 64 85 heck here if ir	Color ( Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color ( Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color ( Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color ( Hue_10YR Hue_10YR Color ( Hue_10YR Hue_10YR Color ( Hue_10YR Hue_10YR Color ( Hue_10YR Color ( Color ( Hue_10YR Color ( Color	cator or co Grains; Loca Moist) 6/3 4/6 2/1 6/8 00t presen edox Matrix Mucky Miner Gleyed Matri	onfirm th tion: PL=P Mottl % 5 1 35 15 t):	e absence of in Pore Lining, M=Matr es Type C C C C	ix) Location M M M M	CL C C C A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I	pebbles Mixed matrix. abundant pebbles for Problematic Muck (LRR I, J) t Prairie Redox ( Surface (LRR G) Plains Depressio	<u>Soils<sup>1</sup></u> LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13 13-21 NRCS Hydr	No primary of ption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epl A3 - Black His A4 - Hydroger A5 - Stratified	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3 7/2 Indicators (ch ipedon etic n Sulfide Layers (LRR F)	eeded to docu atrix, CS=Cover % 95 64 85 heck here if ir	Color ( Color ( Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	served. cator or co Grains; Loca Moist) 6/3 4/6 2/1 6/8 00t presen edox Matrix Matrix Mucky Miner Gleyed Matri Matrix	onfirm th tion: PL=P Mottl % 5 1 35 15 15 t):	e absence of in Pore Lining, M=Matr es Type C C C C	ix) Location M M M M	CL C C C A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduc	pebbles Mixed matrix. abundant pebbles for Problematic Muck (LRR I, J) t Prairie Redox ( Surface (LRR G) Plains Depressic ced Vertic	<mark>: Soils<sup>1</sup></mark> LRR F, G, H)
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-155n45w34-b1
		e non-native sp	becies.)		
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Name</u>	<u> 76 Cover</u>	Johnmani	<u>Inu.Status</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
<u> </u>					Total Number of Dominant Spacies Across All Strata: 1 (B)
	-			. <u></u> _	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
5.	-				$\frac{1}{2}$
6. 7					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					Drevelance Index Monkeheet
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.5x4 =20
1	Total Cover =	=0			FACW spp. 0 $x 2 = 0$
					FAC spp. 0 x 3 = 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 $x 4 = 20$
1.					UPL spp. <u>55</u> X 5 = <u>275</u>
2.					
3.					Total <u>60</u> (A) <u>295</u> (B)
4.					
5.					Prevalence Index = B/A = 4.917
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 *
1	-				Morphological Adaptations (Explain) *
Herb Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	55	Y	NI	
2.	Artemisia biennis	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6	<u> </u>				<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
<i>7</i> . 8.					-
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
9.	1				Sapling/Snrub - Woody plants less than o in. DBH, regardless of holynt.
10.	1				4
11.	<u> </u>				
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	60			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	= 0			
Remarks:	The sample site is dominated by cultivated so				
•••		• , • - • •			
┣─────					
Additional E					
Additional R	(emarks:				
1					