WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge									Date: 09/18/14 County: Marshall
Investigators	5:	NTT/BEH				Subregio	n (MLRA	or LRR):	MLRA 56		State: MN
Soil Unit:	I53A						•	I Classification:			
Landform:	Depression				cal Relief:					Sample Point: w-155n45w28-e1	
Slope (%):	0 - 2%		Latitude: 48.			Longitude:			Datum		
		nditions on the sit			•	II'? (If no, exp	1		☑ Yes		Section:
Are Vegetation		 ☑, or Hydrology □, or Hydrology 	•				Are	e normal circun ☑ Yes	istances pr □ No	esent?	Township: Range: Dir:
SUMMARY (▶ 162			Range: Dir:
Hydrophytic			Yes	6					Hvdric So	ils Present?	? Yes
	drology Prese		Yes								nt Within A Wetland? Yes
Remarks:		•				a soybea	n field th	at has been alt	ered by pre	evious petro	leum pipeline construction. Soil cracking is
HYDROLOG	· ·	n little vegetation t	iniougnout ii		anu.						
Wetland Hy	drology Ind	icators (Check al	ll that apply;	Minimu	um of on	e primary	or two se	econdary requi	red):	0	
<u>Primary</u> □	<u>′'</u> A1 - Surface \	Water			п	B11 - Salt	Crust			<u>Secondary:</u> ☑	<u>"</u> B6 - Surface Soil Cracks
	A2 - High Wa					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydro					B10 - Drainage Patterns
	B1 - Water Ma B2 - Sedimen					C2 - Dry So C3 - Oxidiz		spheres on Living	Roots (not til		C3 - Oxidized Rhizospheres on Living Roots (tille C8 - Crayfish Burrows
	B3 - Drift Dep	•				C4 - Prese					C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M		ace			D2 - Geomorphic Position
	B5 - Iron Dep B7 - Inundatio	osits on Visible on Aerial In	nagerv			Other (Exp	plain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)
	B9 - Water-St										
Field Obser											
	er Present?			oth:		(in.)			Wetland H	Hydrology	Present? Y
Water Table Saturation P		Yes □ Yes □	•	oth:		(in.) (in.)				, ,,	
				oth:		()					
Describe Rec Remarks:	•	stream gauge, mon	-			-			omorphic p	osition, the	FAC-Neutral test, and soil cracking.
Remarks:	•		-			-			omorphic p	osition, the	FAC-Neutral test, and soil cracking.
Remarks: SOILS	No primary	hydrology indicate	ors are prese	ent. We	etland hy	drology is	assume	ed based on geo		osition, the	FAC-Neutral test, and soil cracking.
Remarks: SOILS Profile Descr	No primary		ors are prese	ent. We	etland hy	drology is	assume	ed based on geo e absence of in	dicators.)	osition, the	FAC-Neutral test, and soil cracking.
Remarks: SOILS Profile Descr	No primary	hydrology indicators be to the depth ne etion, RM=Reduced M	ors are prese	ent. We	etland hy	drology is	onfirm the	ed based on geo e absence of in ore Lining, M=Matr	dicators.)	osition, the	FAC-Neutral test, and soil cracking.
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicato be to the depth ne etion, RM=Reduced M Matrix	eeded to doo	cument	etland hy t the indicated Sand C	drology is cator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	ed based on geo e absence of in ore Lining, M=Matr	idicators.)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	hydrology indicato ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo Matrix, CS=Cove	cument cument ered/Coat	etland hy	drology is cator or co Grains; Loca	onfirm the	ed based on geo e absence of in ore Lining, M=Matr	dicators.)	Texture	FAC-Neutral test, and soil cracking.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4	No primary iption (Descrintration, D=Depl Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doo Matrix, CS=Cove	cument ered/Coat	etland hy t the indicated Sand C Color (N	drology is cator or co Grains; Loca Moist)	onfirm the tion: PL=Pe Mottle	ed based on geo e absence of in ore Lining, M=Matr es Type	dicators.)	Texture CL	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-18 10-18 NRCS Hydr	No primary	hydrology indicato ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 7.5YR 9.5 Indicators (ch stic n Sulfide	eeded to doo Aatrix, CS=Cove	ent. We cument ered/Coat 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	etland hy t the indicated Sand C Color (M e_10YR e_10YR ors are n - Sandy Ro - Stripped - Loamy M - Loamy G	drology is cator or co Grains; Loca Moist) 6/8 6/8 6/8 ot presen edox Matrix lucky Minera leyed Matrix	assume onfirm the tion: PL=Pe Mottle % 10 10 10 t):	ed based on geo e absence of in ore Lining, M=Matr es Type C C	Location M M	Texture CL SCL C OT <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Remarks CaCO3 for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-18 10-18 10-18 NRCS Hydr	No primary	hydrology indicato be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 7.5YR 9.5, Indicators (cf ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (L cky Peat or Peat (LR leyed Matrix	eeded to doo Matrix, CS=Cove	ent. We cument red/Coat 6 0 Hu 0 0 Hu 0 1 1 1 1 1 1 1 1 1 1 1 1	etland hy t the indic ited Sand C Color (f e_10YR e_10YR e_10YR ie_10YR ie_10YR ie_10YR ie_10YR ie_10YR ie_10YR ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_2007 ie_200	drology is cator or co Grains; Locar Moist) 6/8 6/8 6/8 ot presen edox Matrix lucky Minera leyed Matrix lucky Minera leyed Matrix ark Surface Dark Surface pressions ains Depres	assume onfirm the tion: PL=Pe Mottle % 10 10 10 t): al x ace ssions (ML	e absence of in ore Lining, M=Matr es Type C C C C RA 72, 73 of LRF	il Present?	Texture CL SCL C OT <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Remarks CaCO3 CaCO3 for Problematic Soils ¹ Auck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be preserved or problematic.

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w28-e1
VEGETATIO		ire non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	Dominant	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: 2 (B)
5.					
6.	<u></u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Tatal Oavan				Itelal % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 11 x 2 = 22 FAC spp. 5 x 3 = 15 FACU spp. 0 x 4 = 0 UPL spp. 0 x 5 = 0
	Total Cover =	=0			FACW spp. 11 $X 2 = 22$
<u> </u>					FAC spp. 5 X $3 = 15$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)	1			FACU spp. 0 $X 4 = 0$
l. 2					$OPL spp. \qquad 0 \qquad X \ S = \qquad 0$
2.					
3.					Total <u>16</u> (A) <u>37</u> (B)
4.					
5.					Prevalence Index = B/A = 2.313
6.					
7.					Hydrophytic Vegetation Indicators
8.					Hydrophytic Vegetation Indicators:
<u> </u>					Rapid Test for Hydrophytic Vegetation
10.	 Total Cover -	0			X Dominance Test is > 50%
	Total Cover =	=0			$X Prevalence Index is \le 3.0 *$
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)	40	V		Problem Hydrophytic Vegetation (Explain) *
1.	Rumex fueginus	10	Y	FACW	* Indiactors of budging soil and watered budgets and much
2.	Chenopodium glaucum	5	Y	FAC	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Persicaria maculosa	1	N	FACW	
4.					Definitions of Vegetation Strata:
5.					Trac
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					height (DBH), regardless of height.
8.					O and the sufficient of the lange that 2 in DPH, regardless of height
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					Userta All borbassous (non woody) planta, regardlass of size
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					Meedy Vince All woody vince recordess of height
15.		10			Woody Vines - All woody vines, regardless of height.
	Total Cover =	= 16			
NA/					
VVoody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Tatal Oas	^			
Demerler	Total Cover =		and The s		a been approved with herbicide, and much of the Durney here here 1.20 doff
Remarks:	Bare soil is present throughout the majority	or the wetla	and. The w	etiand has	s been sprayed with herbicide and much of the Rumex has been killed off.
Additional R	Remarks:				
1					
I					