## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									6/24/14
Applicant:		Enbridge								County: N	/larshall
Investigators	:	BCS/BEH		Subregion (MLRA or LRR): MLRA 56						State: N	/N
Soil Unit:	I15A			NWI Classification:							
Landform:	Depression			Lc	cal Relief: (	CL				Sample Point: V	v-156n46w33-b1
Slope (%):	0 - 2%		atitude: 48.2	48.29680117 Longitude: -96.5660			090833	Datum:			
		onditions on the site			V				□ No	Section:	
Are Vegetatio	•	I □, or Hydrology	•			Are	e normal circum	•	esent?	Township:	
Are Vegetation		I □, or Hydrology	Daturally pr	oblematic?			⊠ Yes	□ No		Range:	Dir:
SUMMARY OF FINDINGS											
Hydrophytic V	Vegetation P	resent?	Yes					Hydric Soil	s Present?	Yes	
Wetland Hyd	rology Prese	ent?	Yes		-			Is This Sar	npling Poin	t Within A Wetla	and? <b>Yes</b>
Remarks:			ocated in a	roadside ditcl	n dominated	d by tall :	scouring rush a				nt to a tilled soybean field.
			ooaloa in a				eee annig raen i				
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all t	hat apply; M	linimum of or	ne primary o	or two se	econdary requi	red):			
Primary		(	11 57				<b>,</b>		Secondary:		
	A1 - Surface	Water			B11 - Salt C	rust				B6 - Surface Soil	Cracks
$\square$ A2 - High Water Table					B13 - Aquati	ic Fauna				B8 - Sparsely Veg	getated Concave Surface
$\checkmark$	A3 - Saturatio	on			C1 - Hydrog					B10 - Drainage P	
	B1 - Water M	larks			C2 - Dry Sea						zospheres on Living Roots (tilled)
	B2 - Sedimer	nt Deposits		□ C3 - Oxidized Rhizospheres on Living Roots (not till€ □							rows
	B3 - Drift Dep	posits			C4 - Presend	ce of Rec	duced Iron			C9 - Saturation V	isible on Aerial Imagery
	B4 - Algal Ma	t or Crust		□ C7 - Thin Muck Surface □ □ Other (Explain) □							Position
	B5 - Iron Dep										Test
		on Visible on Aerial Ima	igery							D7 - Frost-Heave	d Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Observ	vations:										
Surface Wate	er Present?	Yes 🛛	Dept	h.	(in.)						
Water Table		Yes 🗆	Dept		- (in.)			Wetland H	lydrology F	Present?	Y
			•		-						—
Saturation P	esent?	Yes 🛛	Dept	n: <u> </u>	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Lec	olueu Dala (	stream gauge, monito	oring weil, ae	erial photos, pr	evious inspe	ections),	if available:				
	•		<u> </u>			-		restrictions	within the r	oadside ditch.	
Remarks:	•	stream gauge, monito was observed at soi	<u> </u>			-		restrictions	within the r	oadside ditch.	
Remarks:	•		<u> </u>			-		restrictions	within the r	oadside ditch.	
Remarks: SOILS	Saturation	was observed at soi	l surface. Tl	ne water table	e was not ob	oserved	due to digging		within the r	oadside ditch.	
Remarks: SOILS Profile Descri	Saturation v	was observed at soi	I surface. The	ne water table	e was not ob	oserved	due to digging	dicators.)	within the r	oadside ditch.	
Remarks: SOILS Profile Descri	Saturation v	was observed at soi	I surface. The	ne water table	e was not ob	oserved	due to digging	dicators.)	within the r	oadside ditch.	
Remarks: SOILS Profile Descri	Saturation v	was observed at soi ibe to the depth nee letion, RM=Reduced Mat	I surface. The	ne water table	e was not ob	nfirm the	due to digging e absence of in pre Lining, M=Matr	dicators.)	within the r	oadside ditch.	
Remarks: SOILS Profile Descri (Type: C=Concer	Saturation v	was observed at soi ibe to the depth nee letion, RM=Reduced Mat Matrix	l surface. The ded to docu	ment the ind	e was not ob cator or cor Grains; Locatio	oserved	due to digging e absence of in pre Lining, M=Matr	dicators.) <sup>ix)</sup>		oadside ditch.	
Remarks: SOILS Profile Descri	Saturation v	was observed at soi ibe to the depth nee letion, RM=Reduced Mat	I surface. The	ne water table	e was not ob cator or cor Grains; Locatio	nfirm the	due to digging e absence of in pre Lining, M=Matr	dicators.)	within the r	oadside ditch.	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Saturation v	was observed at soi ibe to the depth nee letion, RM=Reduced Mat Matrix Color (Moist)	l surface. The ded to docu	iment the indi	e was not ob cator or cor Grains; Locatio Moist)	nfirm the on: PL=Po Mottle	due to digging e absence of in pre Lining, M=Matr	dicators.) <sup>ix)</sup>		roadside ditch.	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v	was observed at soi ibe to the depth nee letion, RM=Reduced Mat Matrix Color (Moist)	l surface. The ded to docu	iment the indiad/Coated Sand	e was not ob cator or cor Grains; Locatio Moist) Moist)	nfirm the on: PL=Po Mottle	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Texture	or Problematic S	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v ption (Descr htration, D=Dep bic Soil Field A1- Histosol	was observed at soi	eded to docu rix, CS=Covere %	iment the indicators are indicators	e was not ob	nfirm the on: PL=Po Mottle	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Texture Indicators f A9 - 1 cm M	or Problematic S uck (LRR I, J)	<u>oils<sup>1</sup></u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v ption (Descr htration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep	was observed at soi	eded to docu rix, CS=Covere %	ne water table	e was not ob cator or cor Grains; Locatio Moist) Moist) not present) Redox I Matrix	nfirm the on: PL=Po Mottle %	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Texture Texture Indicators f A9 - 1 cm M A16 - Cost F	or Problematic S uck (LRR I, J) Prairie Redox (LRR	<u>oils<sup>1</sup></u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v ption (Descr htration, D=Dep ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi	was observed at soi	eded to docu rix, CS=Covere %	iment the indicators are indicators	e was not ob cator or cor Grains; Locatio Moist) Moist) not present) Redox I Matrix Jucky Mineral	nfirm the on: PL=Po Mottle %	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Texture Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Su	or Problematic S uck (LRR I, J) Prairie Redox (LRR urface (LRR G)	<u>oils¹</u> ₹ F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v ption (Descr htration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroge	was observed at soi	eded to docu rix, CS=Covere %	iment the indicators are indicators are in S5 - Sandy Fi S6 - Stripped Fi F1 - Loamy Fi F2 - Loamy f	e was not ob cator or cor Grains; Locatio Moist) Moist) not present) Redox I Matrix Mucky Mineral Gleyed Matrix	nfirm the on: PL=Po Mottle %	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High F	or Problematic S uck (LRR I, J) Prairie Redox (LRR urface (LRR G) Plains Depressions	<u>oils<sup>1</sup></u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v ption (Descr htration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroge A5 - Stratified	ibe to the depth nee letion, RM=Reduced Mat Matrix Color (Moist)	eded to docu rix, CS=Covere %	iment the indi ed/Coated Sand Color ( Color ( Color ( Color ( S5 - Sandy F S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy ( F3 - Depleted	e was not ob cator or cor Grains; Locatio Moist) Moist) Moist) not present) Redox I Matrix Mucky Mineral Gleyed Matrix d Matrix	nfirm the on: PL=Po Mottle %	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High F F18 - Reduc	or Problematic S uck (LRR I, J) Prairie Redox (LRR urface (LRR G) Plains Depressions red Vertic	<u>oils¹</u> ₹ F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v ption (Descr ntration, D=Dep ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth nee letion, RM=Reduced Mat Matrix Color (Moist)	eded to docu rix, CS=Covera %	iment the indicators are indicators	e was not ob cator or cor Grains; Locatio Moist) Moist) not present) Redox Matrix Mucky Mineral Gleyed Matrix Matrix Dark Surface	nfirm the on: PL=Po Mottle %	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P	or Problematic S uck (LRR I, J) Prairie Redox (LRR urface (LRR G) Plains Depressions ed Vertic arent Material	oils <sup>1</sup> R F, G, H) (LRR H, outisde MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation v ption (Descr ntration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	was observed at soi	eded to docu rix, CS=Covere % % ck here if in	ne water table	e was not ob	nfirm the on: PL=Po Mottle %	due to digging	dicators.)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic S uck (LRR I, J) Prairie Redox (LRR urface (LRR G) Plains Depressions ed Vertic arent Material Shallow Dark Surf in in Remarks)	oils <sup>1</sup> R F, G, H) (LRR H, outisde MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Saturation   ption (Descr   Intration, D=Depleter   ic Soil Field   A1- Histosol   A2 - Histic Ep   A3 - Black Histor   A4 - Hydroge   A5 - Stratified   A9 - 1 cm Mu   A11 - Depleter   A12 - Thick D   S1 - Sandy M   S2 - 2.5 cm M   S3 - 5 cm Mu   S4 - Sandy G	ibe to the depth nee letion, RM=Reduced Mat Matrix Color (Moist) Color (Moist)	eded to docu rix, CS=Covera %	iment the indicators are indicators	e was not ob	nfirm the on: PL=Po Mottle %	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic S uck (LRR I, J) Prairie Redox (LRR urface (LRR G) Plains Depressions red Vertic arent Material Shallow Dark Surf in in Remarks) ydrophytic vegetation ed or problematic.	oils <sup>1</sup> R F, G, H) (LRR H, outisde MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr Restrictive Layer	Saturation v ption (Descr itration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histic A4 - Hydroge A3 - Black Histic A4 - Hydroge A5 - Stratified A1- Com Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G Type: Due to pote	ibe to the depth nee letion, RM=Reduced Mat Matrix Color (Moist) Color (Moist)	eded to docu rix, CS=Covera % % ck here if in ck here if in c ck here if in c c c c c c c c c c c c c c c c c c c	iment the indicators are indicators	e was not ob	nfirm the on: PL=Po Mottle %	due to digging e absence of in pre Lining, M=Matr es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic S uck (LRR I, J) Prairie Redox (LRR urface (LRR G) Plains Depressions red Vertic arent Material Shallow Dark Surf in in Remarks) ydrophytic vegetation ed or problematic.	oils <sup>1</sup> R F, G, H) (LRR H, outisde MLRA 72, 73) face and wetland hydrology must be present,

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	e: L3R				Sample Point: w-156n46w33-b1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				Dominance Test Worksheet
1	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	
<u> </u>					$\frac{1}{2}$
					Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (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: <u>100.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $35$ X 1 = $35$
1	Total Cover =	0			FACW spp. 55 $x 2 = 110$
					FACW spp. 55 x $2 =$ 110   FAC spp. 0 x $3 =$ 0   FACU spp. 12 x $4 =$ 48
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 12 $x 4 = 48$
1.	Salix petiolaris	5	Y	OBL	UPL spp. 0 $X 5 = 0$
2.					
3.					Total 102 (A) 193 (B)
4.					
5.					Prevalence Index = B/A = <b>1.892</b>
6.					1
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	 Total Cover =	5			$\frac{1}{X} \qquad \text{Prevalence Index is } \le 3.0 \text{ *}$
			—		
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *
1.	Equisetum hyemale	40	I	FACW	
2.	Equisetum fluviatile	30	<u> </u>	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Agrostis gigantea	15	<u>N</u>	FACW	present, unless disturbed or problematic.
4.	Poa pratensis	10	<u>N</u>	FACU	Definitions of Vegetation Strata:
5.	Vicia americana	2	N	FACU	
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					1
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					1
11.	<u></u>				1
12.	<u> </u>				Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.	1				1
14.	1				Woody Vines - All woody vines, regardless of height.
10.	Total Cover –	07			
	Total Cover =	97			
Woody Vine St	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =				
Remarks:	The wetland is dominated by tall scouring rus	sh and wat	ter horsete	ail.	
Additional F	Romarke.				
Auditional					