WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14	
Applicant:		Enbridge			0 1 .	/N 41 D /				County:	Pennington	
Investigators		MRK/OTG			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	159A			_	I D - I' - (-		I Classification:				450m 40m 0 h 4	
Landform:	Talf 0 - 2%		Latitude: 48.0		cal Relief:		04040000	Deture		Sample Point	u-152n43w9-b1	
Slope (%):		onditions on the site					31318333	Datum: ☑ Yes	□ No	Section:		
Are Vegetation		I □, or Hydrology			ai: (ii 110, exp		e normal circun			Township:		
Are Vegetation		l □, or Hydrology	•				e normal circuit ☑ Yes	□ No	53 6 111:	Range:	Dir:	
SUMMARY C			Hatarany pro	bolemane:			E 163	□ N0		range.	Dii.	
Hydrophytic \			No					Hydric Soi	ls Present?	^o No		
Wetland Hyd	•		No		_					nt Within A W	etland? No	
Remarks:		sample point is lo		tivated sovbe	an field.			io iiio cai	ripiirig r on		onaria: 110	
HYDROLOG	Υ											
		icators (Check all	that apply: M	inimum of on	a nrimary	or two s	econdary requi	rad)•				
Primary:		icators (Crieck all	ιπαι αρριγ, ινι	iriiriurii or ori	e primary	oi two s	econdary requi	eu).	Secondary			
<u>- 1 111101 y 1</u>	A1 - Surface	Water			B11 - Salt	Crust				<u>.</u> B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surf	ace
	A3 - Saturation				C1 - Hydro					B10 - Drainage		5
	B1 - Water M B2 - Sedimer				C2 - Dry So		ater Table spheres on Living	Poots (not till	, ,	C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living F	Roots (tilled)
	B3 - Drift Dep	•					educed Iron	Noots (not till	, –		n Visible on Aerial Image	rv
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp		.,
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu		
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - water-S	tained Leaves										
Field Observ	vatione											
		V	Donth		(in)							
Surface Water		Yes □ Yes □		n:	(in.)			Wetland F	lydrology	Present?	N	
Water Table Saturation Pr		Yes □ Yes □	Depti	n:	. (in.) (in.)						_	
Saturation	1636111:	103	Depti	l.	\							
<u> </u>			<u> </u>		• ` ′							
	`	stream gauge, moni	itoring well, ae	rial photos, pro	evious insp	ections),	, if available:					
Describe Reco	`	stream gauge, moni or secondary hydr	itoring well, ae	rial photos, pro	evious insp	ections),	, if available:					
Remarks:	`		itoring well, ae	rial photos, pro	evious insp	ections),	, if available:					
Remarks:	No primary	or secondary hydr	itoring well, ae	rial photos, pro ators were ob	evious insp served.	,		dicators \				
Remarks: SOILS Profile Descri	No primary	or secondary hydroibe to the depth ne	itoring well, ae ological indicate	rial photos, pro ators were ob ment the indi	evious insposerved.	onfirm th	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	itoring well, ae ological indicate	rial photos, pro ators were ob ment the indi	evious insposerved.	onfirm th	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary hydrological ibe to the depth ne etion, RM=Reduced Ma	itoring well, ae ological indicate	rial photos, pro ators were ob ment the indi	evious insposerved.	onfirm th	e absence of in Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological hydro	itoring well, ae cological indica eeded to docu atrix, CS=Covere	rial photos, pro ators were ob ment the indi	evious insposerved. cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological better to the depth neterion, RM=Reduced Matrix Color (Moist)	eeded to docu	rial photos, pro ators were ob ment the indi- id/Coated Sand (evious inspectived. cator or contractions; Locar Moist)	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr	Location	Texture	Mixed matrix.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary iption (Descr	or secondary hydrological ibe to the depth ne etion, RM=Reduced Marix Matrix Color (Moist)	eeded to docu atrix, CS=Covere	rial photos, pro ators were ob ment the indi ad/Coated Sand (Color (Hue_2.5Y	evious inspectived. cator or contractions; Locar Moist)	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	ix)	SCL	Mixed matrix.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological better to the depth neterion, RM=Reduced Matrix Color (Moist)	eeded to docu	rial photos, pro ators were ob ment the indi ad/Coated Sand (Color (Hue_2.5Y	evious inspectived. cator or contractions; Locar Moist)	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	Location		Mixed matrix.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	No primary iption (Description, D=Depl	or secondary hydrological ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/3	eeded to docu atrix, CS=Covere	ment the indicators (Color (Hue_2.5Y	evious insposerved. cator or cograins; Loca Moist) 4/3	Mottl 40	e absence of in Pore Lining, M=Matr es Type	Location	SCL	Mixed matrix.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	No primary iption (Description, D=Depl	or secondary hydrological ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/3	eeded to docu atrix, CS=Covere	rial photos, pro ators were ob ment the indi d/Coated Sand (Color (Hue_2.5Y	evious insposerved. cator or cograins; Loca Moist) 4/3 not presen	Mottl 40	ee absence of in Pore Lining, M=Matr es Type C	Location M	SCL SC	for Problematic	·	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	No primary iption (Description, D=Deplementation, D=Deplementation	or secondary hydrological between the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (ch	eeded to docu atrix, CS=Covere	ment the indicators (Color (Hue_2.5Y	evious insposerved. cator or cograins; Loca Moist) 4/3 not presen edox	Mottl 40	ee absence of in Pore Lining, M=Matr es Type C	Location M	SCL SC Indicators		c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	or secondary hydrological ibe to the depth negretion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chapping a stice)	eeded to docu atrix, CS=Covere	rial photos, pro ators were ob ment the indi d/Coated Sand G Color (I Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	evious insposerved. cator or cograins; Loca Moist) 4/3 not presen edox Matrix Mucky Miner	mottl Mottl 40 ti):	ee absence of in Pore Lining, M=Matr es Type C	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (curface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrological ibe to the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chappedonestic in Sulfide	eeded to docuatrix, CS=Covere	rial photos, pro ators were obta ment the indi id/Coated Sand (Color (Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy (F2 - Loamy (F3 - Sandy (F3 - Sandy (F4 - Sandy (F5 - Sandy (F6 - Stripped (F7 - Loamy (F8 - Sandy (F8 - Sandy (F8 - Sandy (evious insposerved. cator or constrains; Loca Moist) 4/3 not presented or constrains; Loca Moist) 4/3 and presented or constrains; Loca Moist) 4/3	mottl Mottl 40 ti):	ee absence of in Pore Lining, M=Matr es Type C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I	for Problemation Muck (LRR I, J) t Prairie Redox (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydrological ibe to the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chappedon stice in Sulfide is Layers (LRR F)	eeded to docu atrix, CS=Covere	color (Interpretation of the color of the co	evious insposerved. cator or cograins; Loca Moist) 4/3 not presen edox Matrix flucky Minera Gleyed Matrix Matrix	mottl Mottl 40 t):	ee absence of in Pore Lining, M=Matr es Type C	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce	for Problemation Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydrological libe to the depth negation, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (characters) Sipedon Stic (characters) A Layers (LRR F) Color (LRR FGH)	eeded to docu atrix, CS=Covere	color (Interpretation of the color of the co	evious insposerved. Cator or cograins; Loca Moist) 4/3 not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface	mottl % 40 ti):	ee absence of in Pore Lining, M=Matr es Type C	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc	for Problemation Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydrological ibe to the depth negation, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chapted on Stice on Sulfide on Sul	eeded to docu atrix, CS=Covere	rial photos, pro ators were observed the individual content of the ind	evious inspectived. cator or control of cator or cator	monfirm the tion: PL=P Mottl % 40 t):	es Type C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M	or secondary hydrological libe to the depth negation, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (characters) Sipedon Stic (Characters) A Layers (LRR F) Cock (LRR FGH)	eeded to docu atrix, CS=Covere	rial photos, pro ators were observed the individual content of the ind	evious inspectived. cator or control of cator or cator	monfirm the tion: PL=P Mottl % 40 t):	ee absence of in Pore Lining, M=Matr es Type C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	or secondary hydrological ibe to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 5/3 Indicators (characters) ipedon stic in Sulfide I Layers (LRR F) ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ich Below Dark Surface in Surface	eeded to docu atrix, CS=Covered	rial photos, pro ators were observed the individual content of the ind	evious inspectived. cator or control of cator or cator	monfirm the tion: PL=P Mottl % 40 t):	es Type C	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) It Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Y Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic 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 S3 - 5 cm Mu	or secondary hydrological programme in the sec	eeded to docu atrix, CS=Covered	rial photos, pro ators were observed the individual content of the ind	evious inspectived. cator or control of cator or cator	monfirm the tion: PL=P Mottl % 40 t):	es Type C	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) It Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Y Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	ust be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	or secondary hydrological programme in the sec	eeded to docu atrix, CS=Covered	rial photos, pro ators were observed the individual content of the ind	evious inspectived. cator or control of cator or cator	monfirm the tion: PL=P Mottl % 40 t):	es Type C	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) It Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Y Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	ust be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A1- Deplete A1- Deplete A1- Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	or secondary hydrological process of the depth need to the depth n	eeded to docu atrix, CS=Covered	rial photos, pro ators were obta ment the individicated Sand of Color (Included Sand of Color (Included Sand of Sand o	evious inspectived. cator or control of cator or cator	monfirm the tion: PL=P Mottl % 40 t):	es Type C LRA 72, 73 of LRF	Location	SCL SC Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) It Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Y Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	ust be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A1- Deplete A1- Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	or secondary hydrological process of the depth need to the depth n	eeded to docu atrix, CS=Covered	rial photos, pro ators were observed the individual content of the ind	evious inspectived. cator or control of cator or cator	monfirm the tion: PL=P Mottl % 40 t):	es Type C LRA 72, 73 of LRF	Location	SCL SC Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) It Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Y Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	ust be present,

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w9-b1
VEGETATIO		are non-native sp	ecies.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	<u>% Cover</u> <u>D</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.		1			
2.					Number of Dominant Species that are OBL, FACW, or FAC:(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. 0
	Total Cover	=0			FACW spp 0
					$FAC spp. \underline{\qquad \qquad 0 \qquad \qquad } x 3 = \underline{\qquad \qquad 0 \qquad }$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp 0
1.					UPL spp60
2.					
3.					Total 60 (A) 300 (B)
4.					
5.					Prevalence Index = $B/A = 5.000$
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) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	60	Υ	NI	
2.					* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	1			-	height (DBH), regardless of height.
8.		1		-	
9.	<u> </u>			-	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.				-	Sapinig/Siliub - Wessy Plante 1888 than 8 lin 22/1, Tegaraless of Height.
11.					
	<u> </u>				Herb - All herbaceous (non-woody) plants, regardless of size.
12.		1		-	Herb - All Herbaceous (Horr-woody) plants, regardless of size.
13.	<u> </u>				
14.					NATION AND AND AND AND AND AND AND AND AND AN
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover	= 60			
Woody Vine St	ratum (Plot size: 30 ft. radius)	-			
1.				4	
2.				-	
3.		-			Hydrophytic Vegetation Present? N
5.					
4.				_	
	Total Cover				
Remarks:	Upland sample point is dominated by cultiv	ated soybeans			
Additional R	Remarks:				
I					