WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14	
Applicant:		Enbridge			0 1 .	/N 41 D A	1.00)	N		County:	Marshall	
Investigators		BEH/NTT			Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit: Landform:	I53A Talf			_	ool Doliefe		I Classification	·		Comando Dointe	11 155n/5w20 f1	
Slope (%):	0 - 2%		Latitude: 48.21		cal Relief: Longitude:		12622	Datum		Sample Point:	u-155n45w28-f1	
		nditions on the s						✓ Yes	□ No	Section:		
Are Vegetation	, 	□, or Hydrolog			11. (11.110, CX)	1	e normal circur			Township:		
Are Vegetation		□, or Hydrolog				,	✓ Yes		0001111	Range:	Dir:	
SUMMARY C			<i>y</i> = 10.10.10.11.y p = 0					- 110		901		
Hydrophytic \			No					Hydric Soi	ils Present?	Yes		
Wetland Hyd	•		No		_					nt Within A We	etland? No	
Remarks:			located in a soy	bean field, a	djacent to	a seasor	nally-flooded p				il is present, but no oth	er
	wetland ind	icators were obs	erved.							-		
HYDROLOG	Y											
_	•	icators (Check a	all that apply; M	nimum of on	e primary	or two se	econdary requi	red):				,
<u>Primary:</u> □	<u>:</u>	Mater			B11 - Salt	Cruet			Secondary:	<u>:</u> B6 - Surface S	oil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surfac	e
	A3 - Saturation	n			C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage	Patterns	
	B1 - Water M				C2 - Dry So			D (((- 1)			Rhizospheres on Living Ro	ots (tilled)
	B2 - Sedimer B3 - Drift Dep	•					spheres on Living duced Iron	Roots (not til	€ □	C8 - Crayfish E	surrows n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorpl		
	B5 - Iron Dep	osits			Other (Exp	lain)				D5 - FAC-Neut	ral Test	
		on Visible on Aerial tained Leaves	Imagery							D7 - Frost-Hea	ived Hummocks (LRR F)	
	D9 - Waler-S	tailled Leaves										
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Depth	:	(in.)			Wetland H	Hydrology	Present?	N	
Water Table		Yes □	•	:	(in.)			vvetiana i	lydrology	i resent:		
Saturation Pr	resent?	Yes	Depth	:	_ (in.)							
Describe Reco	orded Data (
2000110011001	oraca bata (stream gauge, mo	onitoring well, aer	ial photos, pr	evious insp	ections),	if available:					
Remarks:	`	stream gauge, moor secondary hy			<u> </u>	ections),	if available:					
Remarks:	`				<u> </u>	ections),	if available:					
Remarks:	No primary	or secondary hy	drological indica	itors were ob	served.			adicators)				
Remarks: SOILS Profile Descri	No primary	or secondary hy	drological indica	ntors were ob	served.	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hy	drological indica	ntors were ob	served.	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hy	drological indica	ntors were ob	served.	onfirm the	e absence of ir ore Lining, M=Mat					
Remarks: SOILS Profile Descri	No primary	or secondary hyribe to the depth retion, RM=Reduced	drological indica	ntors were ob	served. cator or co	onfirm the	e absence of ir ore Lining, M=Mat		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist)	drological indica needed to docu Matrix, CS=Covere	nent the indi	served. cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)	Texture SC	fine sand	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descr	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist)	drological indica	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)		fine sand	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Dep	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist) 2/1	needed to documents, CS=Covered %	ment the indi	cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Mat es Type	Location		fine sand	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descriptration, D=Dep	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist) 2/1	needed to documents, CS=Covered %	ment the indi	cator or co Grains; Local Moist)	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mat es Type	Location M		fine sand	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No primary Iption (Descriptration, D=Depleter) Hue_10YR Hue_2.5Y	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist) 2/1 5/2	meeded to documents, CS=Covered % 100 75	ment the indid/Coated Sand Color (Hue_7.5YR Hue_2.5Y	cator or co Grains; Local Moist)	Mottle %	e absence of ir ore Lining, M=Mat es Type C C	Location M M	SC C C	fine sand	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No primary ption (Descriptration, D=Depletration, D=Depletration) Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary hyderical be to the depth of etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 7/2	meeded to documents, CS=Covered % 100 75	ment the indid/Coated Sand Color (Hue_7.5YR Hue_2.5Y	cator or co Grains; Local Moist)	Mottle %	e absence of ir ore Lining, M=Mat es Type C C	Location M M	SC C C SIC		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25	No primary Iption (Description, D=Depleter of Depleter of Deplete	or secondary hydelon hydel	meeded to documents, CS=Covered % 100 75 75 75 75	color (Hue_7.5YR Hue_10YR Hue_10YR	cator or co Grains; Local Moist) 6/8 6/8 not present	Mottle %	e absence of ir ore Lining, M=Mat es Type C C	Location M M M	SC C C SIC OT	CaCO3		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25 NRCS Hydr	No primary ption (Description, D=Depintration, D=Depintration	or secondary hydeton, RM=Reduced Matrix Color (Moist) 2/1 5/2 10YR 8	meeded to documents, CS=Covered % 100 75 75 75 75	color (Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR	cator or co Grains; Local Moist) 6/8 6/8 not presentedox	Mottle %	e absence of ir ore Lining, M=Mat es Type C C	Location M M M	SC C SIC OT Indicators	CaCO3 for Problemation fluck (LRR I, J)	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25 NRCS Hydr	No primary Iption (Description, D=Depintration, D=Depintratio	or secondary hydelibe to the depth retion, RM=Reduced Matrix Color (Moist) 2/1 5/2 7/2 10YR 8 Indicators	meeded to documents, CS=Covered % 100 75 75 75 75	color (Hue_7.5YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped	cator or co Grains; Local Moist) 6/8 6/8 6/8 not presented	Mottle % 10 15 20	e absence of ir ore Lining, M=Mat es Type C C	Location M M M	SC C SIC OT Indicators 1 A9 - 1 cm M A16 - Coast	CaCO3 for Problemation fuck (LRR I, J) t Prairie Redox (: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25 NRCS Hydr	Hue_10YR Hue_2.5Y WP Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist) 2/1 5/2 7/2 10YR 8 Sipedon stic	meeded to documents, CS=Covered % 100 75 75 75 75	color (Hue_7.5YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or constant of the const	Mottle Mottle Mottle 20 t):	e absence of ir ore Lining, M=Mat es Type C C	Location M M M	SC C SIC OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	CaCO3 for Problemation fuck (LRR I, J) t Prairie Redox (furface (LRR G)	: Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25 NRCS Hydr	Hue_10YR Hue_2.5Y WP Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist) 2/1 5/2 7/2 10YR 8 Indicators ipedon stic n Sulfide Layers (LRR F)	meeded to documents, CS=Covered % 100 75 75 75 75 75	color (Hue_7.5YR Hue_2.5Y Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	cator or constraints; Local Moist) 6/8 6/8 6/8 not presented ox Matrix Mucky Mineral Gleyed Matrix Matrix	Mottle Mottle Mottle 20 t):	e absence of ir ore Lining, M=Mat es Type C C	Location M M M	SC C SIC OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	CaCO3 for Problemation fuck (LRR I, J) t Prairie Redox (Furface (LRR G) Plains Depression ced Vertic	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25 NRCS Hydr	Hue_10YR Hue_2.5Y WP Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydibe to the depth retion, RM=Reduced Matrix Color (Moist) 2/1 5/2 7/2 10YR 8 Indicators ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	meeded to documents, CS=Covered % 100 75 75 75 Check here if income a content of the content of	color (Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D	Cator or constraints; Location of Cator or constraints; Matrix of Cator or constraints; Matrix or constraints; Location of Cator or constraints; Location or constraints; Location of Cator or constraints; Locati	Mottle Mottle 10 15 20 t):	e absence of ir ore Lining, M=Mat es Type C C	Location M M M	SC C SIC OT Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	CaCO3 for Problemation Muck (LRR I, J) It Prairie Redox (Burface (LRR G) Plains Depression Ced Vertic Parent Material	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25 NRCS Hydr	Hue_10YR Hue_2.5Y WP Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hydelete to the depth retion, RM=Reduced Matrix Color (Moist) 2/1 5/2 7/2 10YR 8 Indicators ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surfate	meeded to documents, CS=Covered % 100 75 75 75 check here if inceeded to documents, CS=Covered % 100 75 100 75 100 100 100 100 100 100 100 100 100 10	color (Hue_7.5YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	Cator or constraints; Location of Cator or constraints; Location of Cator or constraints; Location of Cator or cator of Cator or cator of Cator or cator of Cator or cator of	Mottle Mottle 10 15 20 t):	e absence of ir ore Lining, M=Mat es Type C C	Location	SC C SIC OT Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	CaCO3 for Problemation Muck (LRR I, J) t Prairie Redox (Furface (LRR G) Plains Depression Ced Vertic Parent Material y Shallow Dark S	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-25 18-25 NRCS Hydr	Hue_10YR Hue_2.5Y WP 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 S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	or secondary hydelete to the depth in etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 7/2 10YR 8 Indicators	meeded to document with the second se	color (Hue_7.5YR Hue_2.5Y Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or constraints; Location of Constitution of Constitution of Constraints of	Mottle Mottle % 10 15 20 t):	e absence of ir ore Lining, M=Mates es Type C C C C Hydric Sc	Location M M M Color M Color M M M M Color M Color	SC C SIC OT Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	CaCO3 for Problematic fluck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks) hydrophytic vegetated or problematic.	ESOIIS ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Gurface	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w28-f1
VEGETATIO	N (Species identified in all uppercase ar	re non-native specie	es.)		
Tree Stratum (Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover Dom	<u>inant</u>	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: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. $0 x 2 = 0$
					Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 1 x 4 = 4 UPL spp. 70 x 5 = 350
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{\qquad}$ $x = \underline{\qquad}$
1.					UPL spp. 70 $x = 350$
2.					
3.					Total 71 (A) 354 (B)
4.					
5.					Prevalence Index = B/A = 4.986
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	70	Υ	NI	
2.	Ambrosia artemisiifolia		N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.			•		present, unless disturbed or problematic.
4.			•		Definitions of Vegetation Strata:
5.			-		1
6					Tree - 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.					
11.			<u>.</u>		1
12.			-		Herb - All herbaceous (non-woody) plants, regardless of size.
13.			-		-
14.					4
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cavar	74			- Woody Villes - All Woody Villes, Togalidess of Height.
	Total Cover =	71			
11/2 1 1/2 0					
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					- Uhadasahada Wasadada Dara (O. N.
3.					Hydrophytic Vegetation Present?N
5.					
4.	T				
<u> </u>	Total Cover =				
Remarks:	The sample point is dominated by cultivated	soybean.			
Additional R	Remarks:				
Ī					