WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14
Applicant:		Enbridge								County:	Marshall
Investigators		RAJ/BJC			Subregior	•	,	MLRA 56		State:	MN
Soil Unit:	NWI Classification:										
Landform:	Depression				al Relief:					Sample Point:	w-155n46w3-d2
Slope (%):	0 - 2%		le: 48.27		Longitude:			Datum:		_	
		nditions on the site typic			r? (If no, exp				□ No	Section:	
Are Vegetation	•	☑, or Hydrology □sign	•			Are	e normal circum	-	esent?	Township:	
Are Vegetation			rally prol	blematic?			□ Yes	☑ No		Range:	Dir:
SUMMARY C											
Hydrophytic \			Yes					Hydric Soil			
Wetland Hyd			Yes							nt Within A W	
Remarks:											e soil is disturbed from tillage. The
	area of the we	tland was not planted through	gh this yea	ar. The basin a	ppears to b	e a natura	al swale that has b	een improve	d for field dra	iinage; it connec	ets with a drainage ditch to the north.
HYDROLOG'	V										
			1 14					1)			
		cators (Check all that a	pply; Mii	nimum of one	e primary o	or two se	econdary requir	ed):	0		
Primary:	<u>:</u>	Motor			B11 - Salt (Cruct			Secondary: ☑	<u>:</u> B6 - Surface S	oil Cracks
	A2 - High Wat				B13 - Aqua						√egetated Concave Surface
	A3 - Saturation				C1 - Hydrog					B10 - Drainage	
	B1 - Water Ma	arks			C2 - Dry Se	eason Wa	iter Table				Rhizospheres on Living Roots (tilled)
	B2 - Sediment	•					spheres on Living I	Roots (not till	• 🔲	C8 - Crayfish E	
☑	B3 - Drift Depo				C4 - Preser						Notice on Aerial Imagery
✓	B4 - Algal Mat B5 - Iron Depo				C7 - Thin M Other (Expl		ace			D2 - Geomorp D5 - FAC-Neur	
	•	n Visible on Aerial Imagery		_	Othor (Expi	all I)					aved Hummocks (LRR F)
	B9 - Water-St	0,									(,
Field Observ	vations:										
Surface Wate	er Present?	Yes 🗆	Depth:		(in.)			NA /-41		D10	V
Water Table		Yes □	Depth:		(in.)			Wetland H	iyarology	Present?	Υ
Saturation Pr	resent?	Yes □	Depth:		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Docariba Base	orded Data (c		<u> </u>			octions)	if available:				
	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring	well, aeri	al photos, pre	vious insp	<u> </u>			n di a ata na	f watter at he d	
Describe Reco	· · · · · · · · · · · · · · · · · · ·		well, aeri	al photos, pre	vious insp	<u> </u>		me areas. I	ndicators o	of wetland hyd	rology are present.
Remarks:	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring	well, aeri	al photos, pre	vious insp	<u> </u>		me areas. I	ndicators o	of wetland hyd	rology are present.
Remarks:	There is a d	tream gauge, monitoring ried algal crust in the lov	well, aeri wer area	al photos, pre s of the wetla	vious inspand and ar	n obviou	is drift line in so		ndicators c	of wetland hyd	rology are present.
Remarks: SOILS Profile Descri	There is a d	tream gauge, monitoring ried algal crust in the love	well, aeri wer area	al photos, preson of the wetland	and and ar	n obviou	e absence of inc	dicators.)	ndicators o	of wetland hyd	rology are present.
Remarks: SOILS Profile Descri	There is a d	tream gauge, monitoring ried algal crust in the lov	well, aeri wer area	al photos, preson of the wetland	and and ar	n obviou	e absence of inc	dicators.)	ndicators o	of wetland hyd	rology are present.
Remarks: SOILS Profile Descri	There is a d	tream gauge, monitoring ried algal crust in the love be to the depth needed etion, RM=Reduced Matrix, CS	well, aeri wer area	al photos, preson of the wetland	and and ar	n obviou Infirm the Ion: PL=P	e absence of ingore Lining, M=Matrix	dicators.)	ndicators c	of wetland hyd	rology are present.
Remarks: SOILS Profile Descri (Type: C=Concer	There is a d	tream gauge, monitoring ried algal crust in the love be to the depth needed setion, RM=Reduced Matrix, CS Matrix	well, aeri wer area to docun S=Covered	al photos, presonent the indicated Sand G	and and ar cator or co Grains; Locat	n obvious	e absence of incore Lining, M=Matri	dicators.) ×)		of wetland hyd	
Remarks: SOILS Profile Descri (Type: C=Concer	There is a d	tream gauge, monitoring ried algal crust in the love beto the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist)	well, aeri wer area to docun S=Covered	al photos, preson of the wetland	and and ar cator or co Grains; Locat	n obviou Infirm the Ion: PL=P	e absence of ingore Lining, M=Matrix	dicators.)	Texture	of wetland hyd	rology are present. Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	There is a d ption (Descri	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	well, aeri wer area to docun S=Covered	al photos, presonent the indicated Sand G	evious inspend and are cator or co	onfirm the	e absence of incore Lining, M=Matrix	dicators.) x) Location	Texture FSL	of wetland hyd	
Remarks: SOILS Profile Descri (Type: C=Concer	There is a d	tream gauge, monitoring ried algal crust in the love beto the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist)	well, aeri wer area to docun S=Covered	al photos, press of the wetland content the indicated Sand Color (Nature 1975) Color (Nature 1975)	evious inspend and are cator or coerains; Locate Moist)	onfirm the ion: PL=Pe	e absence of incore Lining, M=Matrix es Type C	dicators.) x) Location M	Texture FSL LFS		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8	There is a d ption (Descri	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2	well, aeri wer area to docun S=Covered % 100 94	al photos, press of the wetland the indicated Sand Color (Nate of Sand Color (Nat of Sand Color (Nate of Sand Color (Nate of Sand Color (Nate of S	evious inspendend and and and and and and are constant an	n obvious onfirm the ion: PL=Pe	e absence of incore Lining, M=Matrix es Type C C	Location M M	Texture FSL	of wetland hyd	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18	ption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_2.5Y	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2	well, aeri wer area to docun S=Covered 100 94 90	al photos, press of the wetland content the indicated Sand Color (Nature 1975) Color (Nature 1975)	evious inspend and are cator or coerains; Locate Moist)	onfirm the ion: PL=Pe	e absence of incore Lining, M=Matrix es Type C	dicators.) x) Location M	Texture FSL LFS LFS	concretions	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8	There is a d ption (Descri	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2	well, aeri wer area to docun S=Covered % 100 94	al photos, press of the wetland the indicated Sand Color (Nate of Sand Color (Nat of Sand Color (Nate of Sand Color (Nate of Sand Color (Nate of S	evious inspendend and and and and and and are constant an	n obvious onfirm the ion: PL=Pe	e absence of incore Lining, M=Matrix es Type C C	Location M M	Texture FSL LFS		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18	There is a d ption (Descriptration, D=Depleted) Hue_10YR Hue_10YR Hue_2.5Y WP	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1	well, aeri wer area to docun S=Covered 100 94 90 5	al photos, press of the wetland in the indicated Sand Grand Color (National Property of the Indicated Sand Grand G	evious inspendend and and and and and and and and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8	modern obvious on firm the ion: PL=Poly Mottle %	e absence of incore Lining, M=Matrix es Type C C C	Location M M	Texture FSL LFS LFS	concretions	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18	ption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_2.5Y	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1	well, aeri wer area to docun S=Covered 100 94 90 5	al photos, press of the wetland the indicated Sand Color (Nate of Sand Color (Nat of Sand Color (Nate of Sand Color (Nate of Sand Color (Nate of S	evious inspendend and and and and and and and and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8	modern obvious on firm the ion: PL=Poly Mottle %	e absence of incore Lining, M=Matrix es Type C C	Location M M	Texture FSL LFS C OT	concretions CaCO4 concentra	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18	There is a d ption (Descriptration, D=Deplete Deplete	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1	well, aeri wer area to docun S=Covered 100 94 90 5	al photos, press of the wetland in the indication of the wetland in the indication of the indication o	evious inspendend and and and and and and and and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present	modern obvious on firm the ion: PL=Poly Mottle %	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture FSL LFS C OT	concretions CaCO4 concentra	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check he	well, aeri wer area to docun S=Covered 100 94 90 5 ere if ind	al photos, press of the wetland in the indication of the wetland in the indication of the indication o	evious inspendend and and and and and and and and and a	modern obvious on firm the ion: PL=Poly Mottle %	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M	concretions CaCO4 concentrations for Problemation fuck (LRR I, J)	Remarks ations Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Deplete Deplete	tream gauge, monitoring ried algal crust in the love to the depth needed retion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check helpedon	well, aeri wer area to docun S=Covered % 100 94 90 5 ere if ind	al photos, press of the wetland in the indication of the wetland in the indication of the indication o	And and are cator or cograins; Located Section 1978 2.5/3 2.5/1 7/8 ot presented ox Matrix	mobvious on sirred the	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (Remarks tions Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Deplete Deplete	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here)	well, aeri wer area to docun S=Covered 100 94 90 5 ere if ind	al photos, press of the wetland in the indication of the wetland in the indication of the indication o	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot presentedox Matrix ucky Minera	moderious onfirm the ion: PL=Per Mottle % 4 2 5	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks tions Soils LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Deplete Deplete	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) pedon tic n Sulfide	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the wetland in the indication of the indication o	And and are cator or contains; Located Moist) 2.5/3 2.5/1 7/8 ot presented with the contains and and are contains; Located Moist)	moderious onfirm the ion: PL=Per Mottle % 4 2 5	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	Remarks tions Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Deplete Deplete	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) pedon tic n Sulfide Layers (LRR F)	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the wetland in the indication of the indication o	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix Matrix	moderious onfirm the ion: PL=Per Mottle % 4 2 5	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	Remarks tions Soils LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) check (LRR F) ck (LRR FGH) cd Below Dark Surface	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the wetland in the indication of the indication o	And and are cator or contains; Located Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix Matrix ark Surface Dark Surface	moderate of the control of the contr	e absence of incore Lining, M=Matrix es Type C C C	Location M M M ——————————————————————————————	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Di	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) tich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the indicatio	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineral leyed Matrix ark Surface pressions	mobvious on firm the ion: PL=Post on Mottle % 4 2 5 t):	e absence of incore Lining, M=Matrixes Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	concretions CaCO4 concentra Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A12 - Thick Day S1 - Sandy Muc A13 - Sandy Muc A14 - Sandy Muc A15 - Sandy Muc A16 - Sandy Muc A17 - Sandy Muc A17 - Sandy Muc A18 - Sandy Muc A18 - Sandy Muc A19 - Sandy Muc A10 - Sandy Muc A10 - Sandy Muc A11 - Sandy Muc A12 - Sandy Muc A13 - Sandy Muc A14 - Sandy Muc A15 - Sandy Muc A16 - Sandy Muc A17 - Sandy Muc A17 - Sandy Muc A18 - Sa	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) tich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the indicatio	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix ark Surface pressions	mobvious on firm the ion: PL=Post on Mottle % 4 2 5 t):	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A11 - Depleteration A12 - Thick District D	tream gauge, monitoring ried algal crust in the love tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) ck (LRR FGH) ck (LRR FGH) cd Below Dark Surface ark Surface	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the indicatio	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix ark Surface pressions	mobvious on firm the ion: PL=Post on Mottle % 4 2 5 t):	e absence of incore Lining, M=Matrixes Type C C C	Location M M M	Texture FSL LFS C OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	concretions CaCO4 concentra for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A11 - Depleteration A12 - Thick District D	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) tich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Peat (LRR G, cky Peat or Peat (LRR G, cky Peat or Peat (LRR F)	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the indicatio	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix ark Surface pressions	mobvious on firm the ion: PL=Post on Mottle % 4 2 5 t):	e absence of incore Lining, M=Matrixes Type C C C	Location M M M	Texture FSL LFS C OT Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	concretions CaCO4 concentra for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleter of the price of the pr	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) tich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Peat (LRR G, cky Peat or Peat (LRR G, cky Peat or Peat (LRR F)	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the indicatio	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix ark Surface pressions	mobvious on firm the ion: PL=Post on Mottle % 4 2 5 t):	e absence of incore Lining, M=Matrixes Type C C C	Location M M M	Texture FSL LFS C OT Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Seain in Remarks)	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A11 - Depleteration A12 - Thick District D	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) tich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Peat (LRR G, cky Peat or Peat (LRR G, cky Peat or Peat (LRR F)	well, aeri wer area to docun S=Covered %	al photos, press of the wetland and the indicators and Grand	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix ark Surface pressions	mobvious on firm the ion: PL=Post on Mottle % 4 2 5 t):	e absence of incore Lining, M=Matrixes Type C C C C A C C C C C C C C C C C C C C	Location M M M H)	Texture FSL LFS C OT Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Seain in Remarks)	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A11 - Depleteration A12 - Thick District D	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) tich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Peat (LRR G, cky Peat or Peat (LRR G, cky Peat or Peat (LRR F)	well, aeri wer area to docun S=Covered %	al photos, press of the wetland in the indication of the indicatio	evious inspendend and are cator or coerains; Locate Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineraleyed Matrix ark Surface pressions	mobvious on firm the ion: PL=Post on Mottle % 4 2 5 t):	e absence of incore Lining, M=Matrixes Type C C C	Location M M M H)	Texture FSL LFS C OT Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	concretions CaCO4 concentra for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Seain in Remarks)	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydr	There is a d ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A12 - Thick District Distric	tream gauge, monitoring ried algal crust in the love to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 6/2 2.5Y 8.5/1 Indicators (check here) tic a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	well, aeri wer area to docun S=Covered 90 5 ere if ind	al photos, press of the wetland and the indication of the wetland	and and are cator or contains; Located Moist) 2.5/3 2.5/1 7/8 ot present edox Matrix ucky Mineral leyed Matrix Matrix ark Surface park Surface pressions ains Depressions ains Depressions	mobvious on firm the ion: PL=Post on the ion:	e absence of incore Lining, M=Matrix es Type C C C HACTORIAN CONTROL C C C C C C C C C C C C C C C C C C	Location M M M H) H)	Texture FSL LFS C OT Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	concretions CaCO4 concentra for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material P	Remarks Itions Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-155n46w3-d2				
VEGETATIO		re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	% Cover	<u>Dominant</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: 3 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)				
7.					(77b)				
8.					Prevalence Index Worksheet				
					4				
9.		0			Total % Cover of: Multiply by:				
10.					OBL spp. 30 x 1 = 30				
	Total Cover =	= 0			FACW spp. 0 x 2 = 0 FAC spp. 25 x 3 = 75 FACU spp. 35 x 4 = 140 UPL spp. 0 x 5 = 0				
					FAC spp. $\underline{}$ $\phantom{a$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{35}{}$ $x = \frac{140}{}$				
1.					UPL spp.				
2.	,				<u> </u>				
3.		<u> </u>			Total 90 (A) 245 (B)				
4.	I .				15tal(A)(B)				
					Dravalanas lindas D/A				
5.					Prevalence Index = B/A = 2.722				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	 Total Cover =	= 0			X Prevalence Index is ≤ 3.0 *				
	10101								
III d Otast as	(District on E (Cons. Pro.)				Morphological Adaptations (Explain) *				
	(Plot size: 5 ft. radius)			001	Problem Hydrophytic Vegetation (Explain) *				
1.	Rorippa palustris	30	Y	OBL					
2.	Chenopodium album	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Echinochloa crus-galli	25	Y	FAC	present, unless disturbed or problematic.				
4.	Artemisia biennis	5	N	FACU	Definitions of Vegetation Strata:				
5.	Amaranthus retroflexus	5	N	FACU					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.									
					Condition (Claresta - Woody plants loss than 2 in DRH, regardless of height				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
10.	Total Cover				Troody vines				
	Total Cover =	= 90	<u>—</u>						
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?				
5.									
4.									
•	Total Cover =	= 0							
Domorko:			The V	vogototion	is sparse and consists of recently amorged condlings (probably what has amorged				
Remarks:				_	is sparse and consists of recently emerged seedlings (probably what has emerged				
	since the last overspray). Based on the little	vegetation	n tnat is pr	esent, the	wetland area meets the hydrophytic vegetation parameter.				
Additional Remarks:									