## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	08/02/14
Applicant:				Cubragion (MLDA and DDA 50							Marshall
Investigators: NTT/KRG				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit: Landform:	I18A NWI Classification: Local Relief: CL									Sample Point:	w-155n46w12-f1
Slope (%):	8 - 15%		ude: 48.259		Longitude:		767	Datum:			W-1001140W12-11
. ,		nditions on the site typ						✓ Yes	□ No	Section:	
Are Vegetation	·			disturbed?	, , ,		e normal circum			Township:	
Are Vegetation			urally prob				Yes	□ No ˙		Range:	Dir:
SUMMARY C	F FINDINGS	8									
Hydrophytic \			Yes		_				ls Present?		
Wetland Hyd			Yes							nt Within A W	
Remarks:	The wetland	d is a fresh wet meadow	v located v	within a road	lside ditch	and dor	ninated by Pha	laris arundir	nacea and <sup>-</sup>	Typha angust	ifolia.
HYDROLOG	Y										
_	•	icators (Check all that	apply; Mir	nimum of on	e primary	or two se	econdary requir	red):			
Primary:		Mata:			D44 O-14	O 1			Secondary:		tall One also
✓	A1 - Surface \A2 - High Wat				B11 - Salt ( B13 - Aqua					B6 - Surface S	
	A3 - Saturatio				C1 - Hydro		le Odor			B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns	
	B1 - Water Ma				C2 - Dry Se				_		Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not tille	€ □	C8 - Crayfish E	
	B3 - Drift Dep				C4 - Prese						Nisible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin M		ace			D2 - Geomorp D5 - FAC-Neur	
	B5 - Iron Depo	วรแร n Visible on Aerial Imagery	1	П	Other (Exp	iairi)					aved Hummocks (LRR F)
	B9 - Water-St		•						_	<i>57</i> 110001100	avea Hammeeke (Ekkir)
Field Observ	vations:										
Surface Wate	er Present?	Yes ☑	Depth:	4	(in.)			Motlend U	ly ralma la avy i	Dracent?	V
Water Table	Present?	Yes $\square$	Depth:		(in.)			wetiand H	lydrology l	Present?	Y
Saturation Pr	resent?	Yes	Depth:		(in.)						<del></del>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
	·						if available:				
Remarks:	·						if available:				
	·						if available:				
Remarks:  SOILS Profile Descri	The wetland	has roughly four inches	es of stand	ding water the	cator or co	onfirm the	e absence of in				
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Remarks:  SOILS Profile Descri	The wetland	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, (	es of stand	ding water the	cator or co	onfirm the	e absence of in ore Lining, M=Matri				
Remarks:  SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth needed etion, RM=Reduced Matrix, Company of the Matrix	d to docum	ding water the indicated Sand (	cator or co	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matri	(x)			
Remarks:  SOILS Profile Descri	The wetland	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, (	es of stand	ding water the	cator or co	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth needed etion, RM=Reduced Matrix, Company of the Matrix	d to docum	ding water the indicated Sand (	cator or co	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth needed etion, RM=Reduced Matrix  Matrix  Color (Moist)	d to docum	ding water the indicated Sand (	cator or co	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matri es Type	(x)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth needed etion, RM=Reduced Matrix  Matrix  Color (Moist)	d to docum CS=Covered	ding water the indicated Sand (	cator or co	Mottle	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	The wetland ption (Descri	be to the depth needed etion, RM=Reduced Matrix  Matrix  Color (Moist)	d to docum CS=Covered	ding water the indicated Sand Color (I	cator or co	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f	for Problematic	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Depletion (Descrintration, D=Depletion)  ic Soil Field  A1- Histosol	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, G  Matrix  Color (Moist)  Indicators (check	to docum CS=Covered	ding water the indicators are r	cator or co Grains; Locat Moist)	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Deplementation) ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  Indicators (check ipedon	to docum CS=Covered	coated Sand Coated Sand Coated Sand Color (I	cator or co Grains; Locat Woist)  not present	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deplementation)  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, (  Matrix Color (Moist)  Indicators (check ipedon etic	to docum CS=Covered	Color (I	cator or co Grains; Locat Moist)  not present	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deplementation) ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, G  Matrix  Color (Moist)  Indicators (check  ipedon etic in Sulfide	to docum CS=Covered	coated Sand Coated Sand Coated Sand Color (I	cator or co Grains; Locat Moist)  Not present	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sc F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, G  Matrix  Color (Moist)  Indicators (check ipedon etic in Sulfide Layers (LRR F)	to docum CS=Covered	color (I Coated Sand C Color (I Coated Sand C Color (I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	Moist)  edox Matrix Mucky Mineral Matrix Matrix	monfirm the dion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deplementation)  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, G  Matrix  Color (Moist)  Indicators (check  ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	to docum CS=Covered	coated Sand Coated Sand Coated Sand Color (I	cator or co Grains; Locat Moist)  Moist)  edox Matrix Mucky Minera Bleyed Matrix Matrix Matrix All Matrix ark Surface	monfirm the ion: PL=Pe	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Parent Material	E Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Depleteration)  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, G  Matrix  Color (Moist)  Indicators (check  ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	to docum CS=Covered	Color (I  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  edox Matrix Mucky Minera Bleyed Matrix Matrix Matrix ark Surface Dark Surfa	Mottle %  t):	e absence of inore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	E Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	The wetland  ption (Descriptration, D=Depleted A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Much A11 - Deplete A12 - Thick D S1 - Sandy Mr S2 - 2.5 cm Much S3 - 5 cm Much S4 - Stratified A9 - 1 cm Much S5 - Sandy Mr S6 - Sandy Mr S6 - Sandy Mr S7 - Sa	has roughly four inches be to the depth needed etion, RM=Reduced Matrix, G  Matrix  Color (Moist)  Indicators (check  ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G cky Peat or Peat (LRR F)	to docum CS=Covered	Color (I  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  edox Matrix Mucky Minera Bleyed Matrix Matrix Matrix ark Surface Dark Surfa	Mottle %  t):	e absence of inore Lining, M=Matri	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red F1F12 - Very Other (Explain Indicators of his	Juck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Parent Material Shallow Dark S Pain in Remarks)	E Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-155n46w12-f1				
					•				
<b>VEGETATIO</b>		e 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:5 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Total Cover =	0	_		FACW spp. $\underline{\qquad}$ 60 $\underline{\qquad}$ X 2 = $\underline{\qquad}$ 120				
					$I \qquad FAC spn \qquad \qquad 5 \qquad \qquad X : 3 = \qquad \qquad 15$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{10}{2}$ $\times$ $4 = \frac{40}{2}$				
1.	Salix petiolaris	15	Υ	OBL	UPL spp. $0   x   5 = 0$				
2.	Fraxinus pennsylvanica	5	Υ	FAC					
3.	Salix eriocephala	5	Υ	FACW	Total 130 (A) 230 (B)				
4.									
5.					Prevalence Index = B/A = 1.769				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	25	_		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	50	Υ	FACW					
2.	Typha angustifolia	30	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Phleum pratense	10	N	FACU	present, unless disturbed or problematic.				
4.	Poa palustris	5	N	FACW	Definitions of Vegetation Strata:				
5.	Carex bebbii	5	N	OBL					
6	Carex retrorsa	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.									
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
10.	Total Cover =	105							
	Total Covel =	100	_						
Moody Vino St	ratum (Plot size: 30 ft. radius)								
1	ratum (Plot Size. 30 it. radius)								
2.									
3.					Hydrophytic Vogotation Procent?				
5.					Hydrophytic Vegetation Present? Y				
4.	Total Cover =	0							
Remarks:	Vegetation is dominated by Phalaris arundin		Typha ana	uctifolic					
Remarks.	vegetation is dominated by Phalans arundin	lacea and i	ypna ang	usiliolia.					
	_								
Additional Remarks:									