WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/24/14	
Applicant:											County:	Marshall	
Investigators	vestigators: KRG/NTT			Subregion (MLRA or LRR):					MLRA 56		State:	MN	
Soil Unit:	<u> </u>			NWI Classification					:		Ī		
Landform:	Depression		Local Relief: CL							Sample Point:	w-156n46w28-b1		
Slope (%):	0 - 2%		Latitude: 48	8 30090			-96.5787	763	Datum:	1	1		
		nditions on the site							✓ Yes	□ No	Section:		
						ai : (ii 110, exp					1		
Are Vegetation		☑, or Hydrology	•	•			Are	normal circun	•	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally	/ probler	matic?				□ No		Range:	Dir:	
SUMMARY (OF FINDING:	5											
Hydrophytic '	Vegetation P	resent?	Υe	es					Hydric Soi	Is Present?	Yes		
	drology Prese		Y	es		-					t Within A W	etland? Yes	
Remarks:					aricultur	al fiold. Th	o cito ic d	connected to a				corridor. The vegetation is ve	
Remarks.		•		IIIII aii a	gricultur	ai ileiu. Tii	e site is t	connected to a	перпешега	ai waterbou	y outside the	Corndor. The vegetation is ver	
	sparse, but	hydrophytes are p	resent.										
HYDROLOG	Υ												
Wetland Hy Primary		icators (Check all	that apply	y; Minim	um of on	e primary	or two se	condary requi	red):	Secondary:			
	A1 - Surface	Nater				B11 - Salt (Crust				B6 - Surface S	oil Cracks	
✓ A2 - High Water Table										[7]		/egetated Concave Surface	
	_			□ B13 - Aquatic Fauna □ □ C1 - Hydrogen Sulfide Odor □							B10 - Drainage Patterns		
	B1 - Water M			□ C1 - Hydrogen Suilide Odor □ □ C2 - Dry Season Water Table □								Rhizospheres on Living Roots (tille	
	B2 - Sedimen				☐ C2 - Dry Season Water Table ☐ C3 - Oxidized Rhizospheres on Living Roots (not tills ☐							Burrows	
	B3 - Drift Dep	•				C4 - Prese				` _	•	Visible on Aerial Imagery	
	B4 - Algal Ma				П	C7 - Thin N					D2 - Geomorp		
	B5 - Iron Dep				ī	Other (Exp					D5 - FAC-Neut		
		n Visible on Aerial Im	nagery		_	Othor (Exp	iaiii,					ved Hummocks (LRR F)	
	B9 - Water-S		lagory							_	27 110011100	voa riammooko (Erkiki)	
	Do Water C	anioa Edavoo											
5	-4"						1						
Field Obser	vations:												
Surface Wat	er Present?	Yes □	D	epth:		(in.)			Watland L	ludrology l	Brocont?	Υ	
Water Table	Present?	Yes ☑	D	epth:	12	(in.)			wettand r	lydrology l	riesentr	I	
Saturation P		Yes □		epth:		. (in.)						_	
Cataration	10001111	100 –		ории		. ()							
Describe Rec	orded Data (s	stream gauge, moni	itoring well,	, aerial p	hotos, pro	evious insp	ections),	if available:					
	<u>`</u>								verv sparse	e throughou	it the area.		
Describe Rec Remarks:	<u>`</u>	stream gauge, moni							very sparse	e throughou	it the area.		
Remarks:	<u>`</u>								very sparse	e throughou	it the area.		
Remarks:	The wetland	l is in a low-lying a	area which	is fed b	y an eph	emeral str	eam. The	e vegetation is		e throughou	it the area.		
Remarks: SOILS Profile Descri	The wetland	d is in a low-lying a	eeded to do	is fed b	y an eph	emeral str	ream. The	e vegetation is	ndicators.)	e throughou	t the area.		
Remarks: SOILS Profile Descri	The wetland	l is in a low-lying a	eeded to do	is fed b	y an eph	emeral str	ream. The	e vegetation is	ndicators.)	e throughou	it the area.		
Remarks: SOILS Profile Descri	The wetland	be to the depth ne	eeded to do	is fed b	y an eph	emeral str	onfirm the	e vegetation is e absence of in ore Lining, M=Matr	ndicators.)	e throughou	t the area.		
Remarks: SOILS Profile Descri	The wetland	d is in a low-lying a	eeded to do	is fed b	y an eph	emeral str	ream. The	e vegetation is e absence of in ore Lining, M=Matr	ndicators.)	e throughou	t the area.		
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth neetion, RM=Reduced Matrix	eeded to do	ocumen	oy an eph at the indi- ated Sand (emeral str	onfirm the	e vegetation is e absence of in ore Lining, M=Matr	ndicators.)		It the area.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to do	ocumen overed/Coa	y an eph	emeral str	onfirm the	e vegetation is e absence of in ore Lining, M=Matr	ndicators.)	Texture	t the area.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	The wetland iption (Description, D=Depl	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	eeded to do	ocumen overed/Coa	oy an eph at the indi- ated Sand (emeral str	onfirm the	e vegetation is e absence of in ore Lining, M=Matr	ndicators.)	Texture SICL	t the area.	Remarks	
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Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-14 14-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (ch	eeded to do atrix, CS=Cov	ocumenovered/Coa	tors are r	cator or co Grains; Locat Moist)	montion: PL=Po	e vegetation is e absence of in ore Lining, M=Matr es Type	Location	Texture SICL FS Indicators f A9 - 1 cm M	or Problematic	: Soils ¹	
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-14 14-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (chain)	eeded to do atrix, CS=Cov	ocumenovered/Coa	color (I	emeral str	monfirm the tion: PL=Po	e vegetation is e absence of in ore Lining, M=Matr es Type	Location	Texture SICL FS Indicators f A9 - 1 cm M A16 - Cost F	or Problemation	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (chain)	eeded to do atrix, CS=Cov	ocumenovered/Coa	tors are r - Sandy R - Stripped	cator or co Grains; Locat Moist) not present	monfirm the tion: PL=Po	e vegetation is e absence of in ore Lining, M=Matr es Type	Location	Texture SICL FS Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S	For Problemation Luck (LRR I, J) Prairie Redox (Lurface (LRR G)	: Soils¹ RR F, G, H)	
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Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-14 14-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (chair) ipedon stic n Sulfide Layers (LRR F)	eeded to do atrix, CS=Cov	ocumen overed/Coa % 100 100 if indicat S5 S6 F1 F2 F3	tors are r - Sandy R - Stripped - Loamy R - Depleted	cator or co Grains; Locat Moist) not present edox Matrix fleyed Matrix I Matrix	monfirm the tion: PL=Po	e vegetation is e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression	: Soils¹ RR F, G, H)	
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Remarks: SOILS Profile Descrice (Type: C=Concerd) Depth (In.) 0-14 14-18 NRCS Hydr	The wetland iption (Description, D=Depleter A1- Histosol A2 - Histic Ep A3 - Black Histosol 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	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR)	eeded to do atrix, CS=Cor	ocumentovered/Coatest Solution Solution	tors are r - Sandy R - Stripped - Loamy N - Loamy O - Depleted - Redox D - Redox D	cator or co Grains; Locat Moist) Moist) oot present edox Matrix fleyed Matrix I Matrix ark Surface I Dark Surface epressions	mottle Mottle Mottle t):	e absence of incre Lining, M=Matres Type	Location	Texture SICL FS Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	RR F, G, H)	
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Remarks: SOILS Profile Descrication (Type: C=Concert Depth (In.) 0-14 14-18 NRCS Hydr	The wetland iption (Description, D=Depleter A1- Histosol A2 - Histic Ep A3 - Black Histosol 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	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR)	eeded to do atrix, CS=Cor	ocumentovered/Coatest Solution Solution	tors are r - Sandy R - Stripped - Loamy N - Depleted - Redox D	cator or co Grains; Local Moist) Moist) not present edox Matrix fleyed Matrix ark Surface I Dark Surfa epressions ains Depres	mottle Mottle Mottle t):	e absence of incre Lining, M=Matres Type	Location	Texture SICL FS Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) urface	
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Remarks: SOILS Profile Descric (Type: C=Concerd) Depth (In.) 0-14 14-18 NRCS Hydr	The wetland iption (Descriptration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Fic Soil Field 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 M S3 - 5 cm Mu S4 - Sandy G Type: The soil cor	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	eeded to do atrix, CS=Cor	ocumen overed/Coa % 100 100 if indicat S5 S6 F1 F2 F3 F6 F7 F8 F16	tors are r - Sandy R - Stripped - Loamy R - Depleted - Redox D - Depleted - Redox D - High Pl	cator or co Grains; Locat Moist) Moist) not present edox Matrix fleyed Matrix ark Surface I Dark Surface pressions ains Depres	Mottle Mottle Mottle sions (MLF)	e absence of incre Lining, M=Matros Type RA 72, 73 of LRF Hydric So Sturbed by cult	Location Hill Present?	Texture SICL FS Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	For Problematic luck (LRR I, J) Prairie Redox (Lurface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks) Anydrophytic vegetated or problematic.	Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) urface	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w28-b1
					•
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	% 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:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
	Total Cover =	0			FACW spp5
					FAC spp. $0 x 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 5 x 2 = 10 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 5 x 5 = 25
1.					UPL spp 5
2.					
3.					Total 10 (A) 35 (B)
4.					
5.					Prevalence Index = B/A = 3.500
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)				X Problem Hydrophytic Vegetation (Explain) *
1.	Rumex stenophyllus	5	Υ	FACW	
2.	Glycine max	5	Υ	NI	* 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.					height (DBH), regardless of height.
8.					
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.					TICID - management (management), pramas, regarded or one
14.					
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Causes	40			VVOOdy Villes - All Woody Villes, Togardiess of Height.
	Total Cover =	10	_		
144 1 17 0					
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					Hadronk d'a Varadadan Barra (O. V.
3.					Hydrophytic Vegetation Present?Y
5.					
4.	7.110				
	Total Cover =	0			
Remarks:	Vegetation is very sparse and consists only of been significantly disturbed.	of narrow-le	eaf dock a	nd stunte	d soybean seedlings. The wetland is within a cultivated field, so vegetation has
	been significantly disturbed.				
Additional F	Remarks:				