WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/01/14
Applicant:										County:	Marshall
Investigators: NTT/KRG			Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:					NWI Classification:					_	
Landform:	Depression				cal Relief:					Sample Point:	w-155n46w12-c1
Slope (%):	3 - 7%		titude: 48.2			-96.507		Datum:		1	
		onditions on the site ty	•		ar? (If no, ex			Yes	□ No	Section:	
Are Vegetation			•	y disturbed?		Are	e normal circum	-	esent?	Township:	
Are Vegetation			aturally pro	oblematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	•		Yes		_				Is Present?		
Wetland Hyd			Yes				 			nt Within A W	etland? Yes
Remarks:	The wetlan	d is a fresh wet mead	low that lies	s within a roa	idside ditcl	h and is o	dominated by P	halaris arur	ndinacea.		
HYDROLOG'	Y										
Wetland Hy	drology Ind	licators (Check all tha	at apply; M	inimum of or	ne primary	or two se	econdary requii	red):			
Primary:		·							Secondary:	•	
□ A1 - Surface Water					B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua						Vegetated Concave Surface
	B1 - Water M			□ C1 - Hydrogen Sulfide Odor□ C2 - Dry Season Water Table□ □						B10 - Drainage	e Fatterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimer			C2 - Dry Season Water Table C3 - Oxidized Rhizospheres on Living Roots (not tille C4 - Presence of Reduced Iron C7 - Thin Muck Surface Other (Explain)							Burrows
	B3 - Drift Dep	•									n Visible on Aerial Imagery
	B4 - Algal Ma										hic Position
	B5 - Iron Dep		.								tral Test
		on Visible on Aerial Imag Itained Leaves	ery						Ц	D7 - Frost-nea	aved Hummocks (LRR F)
	Do Water C	tailled Ecaves									
Field Observ	vations:										
Surface Wate		Yes □	Depth	. .	(in)						
Water Table		Yes	Depti		– (in.) – (in.)			Wetland F	lydrology l	Present?	Υ
Saturation Pr		Yes ☑	Depti		- (in.)						
	icscrit:	103	Вори	"	_ ('''')						
							16 11 1 1				
	<u> </u>	stream gauge, monitor			-	pections),	if available:				
Describe Reco	<u> </u>	stream gauge, monitor aturated at the surface			-	pections),	if available:				
Remarks:	<u> </u>				-	pections),	if available:				
Remarks:	Soils are sa	aturated at the surface	e througho	ut the wetland	d.	·		dicators)			
Remarks: SOILS Profile Descri	Soils are sa	aturated at the surface	e througho	ut the wetland	d.	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	Soils are sa	aturated at the surface	e througho	ut the wetland	d.	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	Soils are sa	ibe to the depth need	e througho	ut the wetland	d.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	ribe to the depth need letion, RM=Reduced Matrix	e througho led to docu k, CS=Covere	ut the wetland	d. icator or co Grains; Loca	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
Remarks: SOILS Profile Descri	Soils are sa	ibe to the depth need	e througho	ut the wetland	d. icator or co Grains; Loca	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are saiption (Description, D=Dep	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist)	e througho	ment the indicators are	d. icator or configuration of present	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	Indicators f	for Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are saiption (Description, D=Deportration, D=Deportration) ic Soil Field A1- Histosol	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (chec	e througho	ment the indicators are in the standard	d. icator or congrains; Loca Moist) not presented	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	Indicators f	luck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are saiption (Description, D=Dep	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checoipedon	e througho	ment the indicators are in the second	d. icator or cograins; Loca Moist) not presented a Matrix	onfirm the otion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are saiption (Description (Description, D=Deportration,	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checoipedon stic	e througho	ment the indicators are in the standard	d. icator or congrains; Loca Moist) not present Redox Matrix Mucky Miner	Mottle % ation: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are said interest of the soils are said interest of the soil	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checonipedon stices Sulfide dayers (LRR F)	e througho	ment the indicators are in S5 - Sandy Find S6 - Stripped F1 - Loamy F2 - Loamy F3 - Depleted	d. icator or congrains; Locator or congrain	Mottle % ation: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are sample of the soils are sample of the soil Field of the soil Field of the soil A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checon Sulfide d Layers (LRR F) uck (LRR FGH)	ed to docu k, CS=Covere	ment the indicators are in the second of the	Moist) Redox Mucky Miner Gleyed Matrix Dark Surface	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plated Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Soils are said interest of the	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checon Sulfide d Layers (LRR F) lick (LRR FGH) led Below Dark Surface	ed to docu k, CS=Covere	ment the indicators are in the second of the	Moist) Redox Matrix Mucky Miner Gleyed Matrix Dark Surfaced Dark Surfaced	Mottle Mottle ix at a	e absence of in ore Lining, M=Matr es Type	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 Parent Material Shallow Dark S	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are satisfied A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checonical content of the	ed to docu k, CS=Covere	ment the indicators are in the second of the	icator or congrains; Local Moist) Moist) Motrix Mucky Miner Gleyed Matrix Dark Surface Depressions	Mottle Mottle // // // // // // // // // // // // /	e absence of inore Lining, M=Matres es Type	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 Plated Vertic Parent Material	E Soils ¹ ELRR 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-c1				
VEGETATIO	N (Species identified in all uppercase are	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: 2 (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. $\frac{1}{45}$ $\times 1 = \frac{45}{45}$				
	Total Cover =	0			OBL spp. 45				
	-				FAC spp. $0 x 3 = 0$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 $x 4 = 20$				
1.					UPL spp. $0 \times 5 = 0$				
2.					··· 				
3.					Total 105 (A) 175 (B)				
4.					(-)				
5.					Prevalence Index = B/A = 1.667				
6.					. Tevalence index = 2/7 (=				
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *				
		0							
Llank Otration	(Diet einer Ett verlige)				Morphological Adaptations (Explain) *				
	(Plot size: 5 ft. radius)	F0		FACW	Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	50	Y		* Indicators of hydric soil and watland hydrology must be				
2.	Carex pellita	30	<u> </u>	OBL	 * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 				
3.	Scirpus atrovirens	10	N	OBL	·				
4.	Poa palustris	5	N	FACW	Definitions of Vegetation Strata:				
5.	Phleum pratense	5	N N	FACU	<u>_</u>				
6	Cicuta maculata	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.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	105							
	-								
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:	The wetland vegetation is dominated by Care		nd Phalari	is arundina	acea.				
rtomantor	The Welland Vegetalien is deminated by Edit	m pointa a	na i naian	o aramann					
A -1-1144	D								
Additional Remarks:									