## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/26/14
Applicant:										County: State:	Marshall
Investigators: NTT/KRG				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit:	1133A		NWI Classification:						1	450 40 00 14	
Landform:	Depression		10.10		cal Relief:		100			Sample Point:	w-158n48w23-b1
Slope (%):	0 - 2%		de: 48.48			-96.8184		<u>Datum:</u>		1	
		onditions on the site typi			ar'? (If no, ex				□ No	Section:	
Are Vegetation			•	disturbed?		Are	normal circum	-	esent?	Township:	
Are Vegetation			urally prob	olematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	•		Yes		-				Is Present?		
Wetland Hyd			Yes		<del></del>		<del></del>		mpling Poin	nt Within A W	etland? <b>Yes</b>
Remarks:	The wetlan	d is a wet meadow locat	ted within	a roadside	ditch and o	dominate	d by Typha an	gustifolia.			
<b>HYDROLOG</b>	Υ										
Wetland Hy	drology Ind	licators (Check all that	apply: Mir	nimum of on	e primary	or two se	econdary requi	red):			
Primary:	•	(0			,		, , , , , , , , , , , , , , , , , , , ,		Secondary:		
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks
					B13 - Aqua						Vegetated Concave Surface
✓	A3 - Saturation			☐ C1 - Hydrogen Sulfide Odor ☐ ☐ C2 - Dry Season Water Table ☐							e Patterns
	B1 - Water M B2 - Sedimer							Roots (not till	L -	C8 - Crayfish E	Rhizospheres on Living Roots (tilled
	B3 - Drift Der	•		□ C3 - Oxidized Rhizospheres on Living Roots (not tille □ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □ Other (Explain) □							n Visible on Aerial Imagery
	B4 - Algal Ma										hic Position
	B5 - Iron Dep										tral Test
		on Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
<b>5</b> : 1101	4.										
Field Observ					<i>(</i> )						
Surface Wate		Yes ☑	Depth:		_ (in.)			Wetland F	lydrology l	Present?	Υ
Water Table		Yes	Depth:		_ (in.)				.,		<u> </u>
Saturation Pr	resent?	Yes ☑	Depth:	0	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: The soil is saturated throughout the wetland with pockets of standing water that reach depths of up to four inches.											
Remarks:	The soil is		•					oths of up to	four inches	<u> </u>	
Remarks:	The soil is		•					oths of up to	four inches	3.	
Remarks: SOILS	The soil is		•					oths of up to	four inches	S.	
SOILS Profile Descri	iption (Descr	saturated throughout the	e wetland to docum	with pocket	s of standi	ng water	that reach dep	dicators.)	four inches	S.	
SOILS Profile Descri	iption (Descr	saturated throughout the	e wetland to docum	with pocket	s of standi	ng water	that reach dep	dicators.)	four inches	S.	
SOILS Profile Descri	iption (Descr	saturated throughout the libe to the depth needed letion, RM=Reduced Matrix, C	e wetland to docum	with pocket	s of standi	ng water onfirm the	that reach dep e absence of in ore Lining, M=Matr	dicators.)	four inches	S.	
SOILS Profile Descri (Type: C=Concer	iption (Descr	ribe to the depth needed letion, RM=Reduced Matrix, C	to docum CS=Covered	with pockets nent the indi /Coated Sand	s of standi	ng water onfirm the	that reach dependence absence of incore Lining, M=Matres	dicators.)	four inches	S.	
SOILS Profile Descri	iption (Descr	saturated throughout the libe to the depth needed letion, RM=Reduced Matrix, C	e wetland to docum	with pocket	s of standi	ng water onfirm the	that reach dep e absence of in ore Lining, M=Matr	dicators.)	four inches	S.	Remarks
SOILS Profile Descri (Type: C=Concer	iption (Descr	ribe to the depth needed letion, RM=Reduced Matrix, C	to docum CS=Covered	with pockets nent the indi /Coated Sand	s of standi	ng water onfirm the	that reach dependence absence of incore Lining, M=Matres	dicators.)		S.	Remarks
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SOILS Profile Descri (Type: C=Concer	iption (Descr	ribe to the depth needed letion, RM=Reduced Matrix, C	to docum CS=Covered	with pockets nent the indi /Coated Sand	s of standi	ng water onfirm the	that reach dependence absence of incore Lining, M=Matres	dicators.)		S.	Remarks
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SOILS Profile Descri (Type: C=Concer  Depth (In.)	ption (Descr	ibe to the depth needed letion, RM=Reduced Matrix  Color (Moist)	to documents to do	ment the indi /Coated Sand	cator or co	onfirm the tion: PL=Po	that reach dependence of incore Lining, M=Matres  Type	dicators.)		S	Remarks
SOILS Profile Descri (Type: C=Concer	ption (Descr	ibe to the depth needed letion, RM=Reduced Matrix  Color (Moist)	to documents to do	with pockets nent the indi /Coated Sand	cator or co	onfirm the tion: PL=Po	that reach dependence absence of incore Lining, M=Matrees	dicators.)	Texture		
SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Descr ntration, D=Dep	ibe to the depth needed letion, RM=Reduced Matrix  Color (Moist)	to documents to do	ment the indi /Coated Sand Color (	cator or co Grains; Loca Moist)	onfirm the tion: PL=Po	that reach dependence of incore Lining, M=Matres  Type	dicators.) ix)  Location	Texture  Indicators f	for Problematic	
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	iption (Description, D=Deportration, D=Deportration)  ic Soil Field  A1- Histosol	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  I Indicators (check h	to documents to do	ment the indicators are r	cator or concentration of standing cator or concentration or concentration or concentration of standing cator or concentration of standing cator or concentration or concentration of standing cator or concentration or concentration of standing cator or concentration or concentrati	onfirm the tion: PL=Po	that reach dependence of incore Lining, M=Matres  Type	Location	Texture  Indicators f A9 - 1 cm M	or Problematic	c Soils <sup>1</sup>
SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Descr ntration, D=Dep	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  I Indicators (check hoppedon	to documents to do	ment the indi /Coated Sand Color (  icators are r  S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist)  not presentedox Matrix	ng water  onfirm the tion: PL=Po  Mottle  %  t):	that reach dependence of incore Lining, M=Matres  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F	for Problematic	c Soils <sup>1</sup>
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  I Indicators (check hoipedon stic	to documents to do	ment the indicators are r	cator or cograins; Loca  Moist)  not presentedox Matrix Mucky Miner	mg water  onfirm the tion: PL=Po  Mottle  %  t):	that reach dependence of incore Lining, M=Matres  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F	For Problemation  Juck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression	c Soils <sup>1</sup>
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  I Indicators (check hopedon sticen Sulfided Layers (LRR F)	wetland to documes=Covered % here if ind	rent the indi /Coated Sand Color (  Color (  icators are restricted to the second seco	cator or concentrations; Local  Moist)  Moist)  Moist  Moi	mg water  onfirm the tion: PL=Po  Mottle  // // // // // // // // // // // // //	that reach dependence of incore Lining, M=Matres  Type	dicators.) ix)  Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduce	For Problemation  Juck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression  Seed Vertic	c Soils <sup>1</sup> .RR F, G, H)
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  I Indicators (check hopedon sticen Sulfide d Layers (LRR F) uck (LRR FGH)	wetland to documes=Covered % here if ind	rent the indi /Coated Sand /Coa	cator or concentrations; Local  Moist)  Moist)  not present edox Matrix Mucky Miner Gleyed Matrix Matrix Dark Surface	ng water  onfirm the tion: PL=Po  Mottle  // // // // // // // // // // // // //	that reach dependence of incore Lining, M=Matres  Type	dicators.) ix)  Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	for Problemation  Juck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression  Plains Depression  Parent Material	Soils <sup>1</sup> RR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Matrix  Color (Moist)  I Indicators (check here)  in Sulfide depth needed depth ne	wetland to documes=Covered % here if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	cator or concentrations; Local  Moist)  Moist)  Moist)  Moist present the concentration of present discovers and the concentration of t	ng water  onfirm the tion: PL=Po  Mottle  // // // // // // // // // // // // //	that reach dependence of incore Lining, M=Matres  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	Soils <sup>1</sup> RR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer  Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Matrix Color (Moist)  I Indicators (check here)  icen Sulfide d Layers (LRR F) lick (LRR FGH) ed Below Dark Surface Dark Surface	wetland to documes=Covered % here if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or configurations; Local  Cator or configurations; Local  Moist)  Moist)  Cator or configurations; Local  Moist)	mg water  onfirm the tion: PL=Po  Mottle  %  t):  al  x  ace	e absence of incre Lining, M=Matros  Type	dicators.) ix)  Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	for Problemation  Juck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression  Plains Depression  Parent Material	Soils <sup>1</sup> RR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer  Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Matrix Color (Moist)  I Indicators (check has been Sulfide depth Layers (LRR F) let (LRR FGH) led Below Dark Surface Dark Surface Mucky Mineral Mucky Peat or Peat (LRR Glacky Peat or Peat (LRR F) let (LRR F)	wetland to docum S=Covered  % here if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or configurations; Local  Cator or configurations; Local  Moist)  Moist)  Cator or configurations; Local  Moist)	mg water  onfirm the tion: PL=Po  Mottle  %  t):  al  x  ace	e absence of incre Lining, M=Matros  Type	dicators.) ix)  Location	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 <sup>1</sup> RR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer  Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi 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	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Matrix Color (Moist)  I Indicators (check has been Sulfide depth Layers (LRR F) luck (LRR FGH) led Below Dark Surface Dark Surface Mucky Mineral Mucky Peat or Peat (LRR F) licky Peat or Peat (LRR F)	wetland to docum S=Covered  % here if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or configurations; Local Moist)  Moist)  Moist)  Motrix  Mucky Miner  Gleyed Matrix  Mat	mg water  onfirm the tion: PL=Po  Mottle  %  t):  al  x  ace	e absence of incre Lining, M=Matroses  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils <sup>1</sup> RR F, G, H)  Ons (LRR H, outisde MLRA 72, 73)  Surface
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-158n48w23-b1
					•
<b>VEGETATIO</b>	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<b>Dominant</b>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (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: 50.0% (A/B)
7.					(742)
8.					Prevalence Index Worksheet
					Total 9/ Cover of Multiple by
9.					Total % Cover of: Multiply by:
10.	Total Cavar		$OBL spp. \qquad 70 \qquad X I = \qquad 70$		
	Total Cover = _	0	FACW spp. $0 \times 2 = 0$		
					Total % Cover of:       Multiply by:         OBL spp.       70       X 1 =       70         FACW spp.       0       X 2 =       0         FAC spp.       0       X 3 =       0         FACU spp.       20       X 4 =       80         UPL spp.       0       X 5 =       0
	Stratum (Plot size: 15 ft. radius)				FACU spp. $20$ $\times 4 = 80$
1.					UPL spp. $0   X   5 = 0$
2.					
3.					Total 90 (A) 150 (B)
4.					
5.					Prevalence Index = B/A = 1.667
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.		0			X Prevalence Index is ≤ 3.0 *
	Total Cover =_	U	_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	50	Y	OBL	
2.	Elymus repens	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Beckmannia syzigachne	10	N	OBL	present, unless disturbed or problematic.
4.	Rorippa palustris	5	N	OBL	Definitions of Vegetation Strata:
5.	Alisma triviale	5	N	OBL	
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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
					TIEID - All Herbaccous (Horr woody) plants, regardless of size.
13.					
14.					All considerations and the second sec
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	90	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
T.	Total Cover =	0			
Remarks:	The wetland vegetation is dominated by Typh		folia and E	lymus ron	oons
Remarks.	The wettand vegetation is dominated by Typi	ia angusti	iolia and E	nymus rep	ens.
Additional F	Remarks:				