## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/16/14
Applicant:										County: Marshall
Investigators:				Subregion (MLRA or LRR): MLRA 56						State: MN
Soil Unit:	165A						Classification:			450 40 00 4
Landform:	Dip		40.00		cal Relief:		4.5			Sample Point: w-156n46w33-g1
Slope (%):	0 - 2%		Latitude: 48.29		Longitude:			Datum:		4
		nditions on the sit			If ? (If no, expl				□ No	Section:
Are Vegetation		☑, or Hydrology				Are r	normal circum	-	esent?	Township:
Are Vegetation		□, or Hydrology	Daturally pro	blematic?			□ Yes	☑ No		Range: Dir:
SUMMARY O			\ <u>'</u>					Lludaia Cai	In Dunn 10	Vac
Hydrophytic \			Yes		•				ls Present?	
Wetland Hyd			Yes	ald along to all to		Theres	and a Caralla alla			nt Within A Wetland? Yes
Remarks:		y-fiooded basin in	i a cultivated fi	eia piantea to	soybeans	. The ve	getation is dis	turbed from	i tillage and	d herbicide use. The soils are disturbed from
	tillage.									
HYDROLOGY	Y									
Wetland Hy	drology Indi	icators (Check all	I that apply; M	nimum of on	e primary c	or two sec	condary requir	ed):		
Primary:		•			, ,		, ,	,	Secondary:	<u>:</u>
	A1 - Surface Water				B11 - Salt C				✓	B6 - Surface Soil Cracks
	A2 - High Wa				B13 - Aquat		0.1		$\square$	B8 - Sparsely Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma				C1 - Hydrog C2 - Dry Se			B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen				,		heres on Living	Roots (not till	<b>.</b> □	C8 - Crayfish Burrows
	B3 - Drift Dep	•			C4 - Presen			rtooto (not tiii	`	C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M	uck Surfac	е		✓	D2 - Geomorphic Position
	B5 - Iron Dep				Other (Expla	ain)			✓	D5 - FAC-Neutral Test
		n Visible on Aerial Im	nagery							D7 - Frost-Heaved Hummocks (LRR F)
	B9 - Water-St	ained Leaves								
Field Observ										
Surface Wate		Yes □	Depth		(in.)			Wetland F	lydrology l	Present? Y
Water Table		Yes □	Depth	:	(in.)			Wottana i	iyarology i	——————————————————————————————————————
Saturation Pr	esent?	Yes □	Depth	:	(in.)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
I Describe Reco	orded Data (s	stream gauge, mon	itoring well, aer	ial photos, pre	evious inspe	ections), if	f available:			
								in the hasi	n and those	e that are present are stunted. The soil has
Describe Reco	Though the	wetland area was	planted throu	gh this spring	, there are			in the basi	n and those	e that are present are stunted. The soil has
Remarks:	Though the		planted throu	gh this spring	, there are			ı in the basi	n and those	e that are present are stunted. The soil has
Remarks:	Though the surface crac	wetland area was cks. Indicators of	s planted throu wetland hydro	gh this spring logy are pres	, there are ent.	few soyb	oeans growing		n and those	e that are present are stunted. The soil has
Remarks:  SOILS Profile Descri	Though the surface crace ption (Descri	wetland area was	s planted throu wetland hydro	gh this spring logy are pres	, there are ent. cator or co	few soyb	peans growing absence of in	dicators.)	n and those	e that are present are stunted. The soil has
Remarks:  SOILS Profile Descri	Though the surface crace ption (Descri	wetland area was cks. Indicators of be to the depth ne	s planted throu wetland hydro	gh this spring logy are pres	, there are ent. cator or co	few soyb	peans growing absence of in	dicators.)	n and those	e that are present are stunted. The soil has
Remarks:  SOILS Profile Descri	Though the surface crace ption (Descri	wetland area was cks. Indicators of be to the depth ne	s planted throu wetland hydro	gh this spring logy are pres	, there are ent. cator or co	few soyb	oeans growing absence of in re Lining, M=Matr	dicators.)	n and those	e that are present are stunted. The soil has
Remarks:  SOILS Profile Descri	Though the surface crace ption (Descri	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M	s planted throu wetland hydro	gh this spring logy are pres	ent.  cator or cor  Grains; Location	ofew soyb onfirm the	oeans growing absence of in re Lining, M=Matr	dicators.)	n and those	e that are present are stunted. The soil has  Remarks
Remarks:  SOILS Profile Descri (Type: C=Concen	Though the surface crace ption (Descriptration, D=Deplement)	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)	eeded to docur	gh this spring logy are present the indicated Sand Control Color (I	ent.  cator or cor  Grains; Location	nfirm the	absence of in re Lining, M=Matr	dicators.)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8	Though the surface crace ption (Descriptration, D=Deplementation, D=Deplementation)	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)  2/1	eeded to documents, CS=Covered %	gh this spring logy are present the indicated Sand Control Color (I	ent.  cator or cor  Grains; Location	nfirm the	absence of in re Lining, M=Matr	dicators.)	Texture FSL	
Remarks:  SOILS Profile Descri (Type: C=Concent	Though the surface crace ption (Descriptration, D=Deplement)	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)	eeded to docur	gh this spring logy are present the indicated Sand Control Color (I	ent.  cator or cor  Grains; Location	nfirm the	absence of in re Lining, M=Matr	dicators.)	Texture	
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8	Though the surface crace ption (Descriptration, D=Deplementation, D=Deplementation)	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)  2/1	eeded to documents, CS=Covered %	gh this spring logy are present the indicated Sand Control Color (I	ent.  cator or cor  Grains; Location	nfirm the	absence of in re Lining, M=Matr	dicators.)	Texture FSL	
Remarks:  SOILS Profile Descripe: C=Concent  Depth (In.)  0-8  8-18	Though the surface crace ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Gley1	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)  2/1  5/N	eeded to docur latrix, CS=Covere	gh this spring logy are present the indicated Sand Color (I	y, there are ent.  cator or core erains; Location  Moist)	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	dicators.)	Texture FSL	
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8	Though the surface crace ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Gley1	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)  2/1  5/N	eeded to documents, CS=Covered %	gh this spring logy are present the indicated Sand Color (I	y, there are ent.  cator or core erains; Location  Moist)	nfirm the on: PL=Pore	absence of in re Lining, M=Matr	dicators.)	Texture FSL VFS	Remarks
Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-8  8-18	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix Color (Moist)  2/1  5/N	eeded to docur latrix, CS=Covere	gh this spring logy are present the indicators are residual control of the contro	y, there are ent.  Cator or core erains; Location  Moist)  ot present	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	Location	Texture FSL VFS	Remarks  for Problematic Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.)  0-8  8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch	eeded to docur latrix, CS=Covere	gh this spring logy are present the indicators are response to the spring sprin	y, there are ent.  Cator or core are cator or ca	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	dicators.) x)  Location	Texture FSL VFS  Indicators f A9 - 1 cm M	Remarks  for Problematic Soils <sup>1</sup> fluck (LRR I, J)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch	eeded to docur latrix, CS=Covere	gh this spring logy are present the indicators are respectively. So - Sandy R S6 - Stripped	y, there are ent.  cator or cor Grains; Location  Moist)  oot present  edox Matrix	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	dicators.) x)  Location	Texture FSL VFS  Indicators f A9 - 1 cm M A16 - Coast	Remarks  for Problematic Soils¹  fuck (LRR I, J)  Prairie Redox (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch	eeded to docur latrix, CS=Covere	gh this spring logy are present the indicators and Color (Incident the second	y, there are ent.  Cator or corerains; Location  Moist)  Hot present  edox Matrix lucky Minera	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	dicators.) x)  Location	Texture FSL VFS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	Remarks  for Problematic Soils  fuck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch	s planted throused wetland hydroseded to document with the second	gh this spring logy are present the indicators and Color (Incident Sand Color (Incident Sand Sand Sand Sand Sand Sand Sand Sand	Moist)  edox Matrix lucky Minera leyed Matrix	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F	Remarks  for Problematic Soils  Muck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch	eeded to docur latrix, CS=Covere	gh this spring logy are present the indicators and Color (Incident Sand Color (Incident Sand Sand Sand Sand Sand Sand Sand Sand	Moist)  edox Matrix lucky Minera leyed Matrix Matrix Matrix	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	Remarks  For Problematic Soils  Muck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  ced Vertic
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch	s planted throuse wetland hydroseded to document with the second	gh this spring logy are present the indicators and Color (Incident Sand Color (Incident Sand Sand Sand Sand Sand Sand Sand Sand	dent.  Cator or coresins; Location  Moist)  ot present;  edox  Matrix lucky Minera leyed Matrix Matrix Matrix ark Surface	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduct TF2 - Red P	Remarks  for Problematic Soils  Muck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	s planted throuse wetland hydroseded to document the second secon	gh this spring logy are present the indicators are respectively. Color (I See Sandy Research See Sandy Resea	ent.  Cator or coresponding to the present of the p	nfirm the on: PL=Pore	absence of ing absenc	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Remarks  For Problematic Soils  Muck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  ced Vertic  Parent Material
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mul A11 - Deplete A12 - Thick D S1 - Sandy M	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	s planted throused wetland hydroseded to document the second seco	gh this spring logy are present the indicators are respectively. Color (I See Sandy Research See Sandy Resea	ent.  Cator or coresponding to the present of the p	nfirm the on: PL=Pore	absence of in re Lining, M=Matri s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Remarks  For Problematic Soils¹  Muck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  Ced Vertic  Parent Material  Shallow Dark Surface
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18  NRCS Hydri	Though the surface crace ption (Descriptration, D=Deplementation,	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (chain sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (L	s planted throused wetland hydroseded to document atrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	gh this spring logy are present the indicators are respectively. Color (I See Sandy Research See Sandy Resea	ent.  Cator or coresponding to the present of the p	nfirm the on: PL=Pore	absence of ing absenc	Location	Texture FSL VFS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	Remarks  for Problematic Soils¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Fourface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Foed Vertic Forent Material For Shallow Dark Surface For Pain in Remarks)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-8 8-18	Though the surface crace ption (Descriptration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black History A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S3 - 5 cm Mu	wetland area was cks. Indicators of be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  5/N  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	s planted throused wetland hydroseded to document atrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	gh this spring logy are present the indicators are respectively. Color (I See Sandy Research See Sandy Resea	ent.  Cator or coresponding to the present of the p	nfirm the on: PL=Pore	absence of ing absenc	Location	Texture FSL VFS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	Remarks  for Problematic Soils¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Fourface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Foed Vertic Forent Material For Shallow Dark Surface For Problematic Soils¹ For Problematic Soils² For Problema
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w33-g1				
VEGETATIO	` ` '	re non-native	species.)						
Tree Stratum (	Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u></u>	<u>,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,</u>	<u> </u>	<u></u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata:(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.	Tatal Causan				OBL spp. <u>26</u>				
	Total Cover =	= 0	FACW spp. 0						
Conling/Chrub (	Strotum (Plot cize: 15 ft radius)				FACTIONS $3 \times 3 = 9$				
1.	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
2.					Ο L 3pp				
3.					Total 35 (A) 59 (B)				
4.					(2)				
5.					Prevalence Index = B/A = 1.686				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	<u> </u>			X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *				
1.	Rorippa palustris	15	Y	OBL					
2.	Chenopodium rubrum	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3.	Setaria pumila	3	N	FACU	·				
4. 5.	Sonchus arvensis	2	N N	FACU FACU	Definitions of Vegetation Strata:				
6	Artemisia biennis  Epilobium coloratum	1	N	OBL	Tree - Weeds plants 2 in (7 Com) or more in diameter at broast				
7.	Chenopodium album	<u>'</u> 1	N	FACU	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
8.	Grieriepediam disam	<u>'</u>	- ' '	17100					
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.				
	Total Cover =	35	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2. 3.					Hydrophytic Vegetation Present?				
5.					Hydrophytic vegetation Present?				
4.									
7.	Total Cover =	- 0							
Remarks:			sin in a cult	tivated fie	ld. The area is dominated by common yellowcress and red goosefoot. Hydrophytic				
rtomarko.	vegetation is present.	noodod bac	mi ma oan	iivatoa iio	id. The dred is definitated by comment your wordes and rea geocorest. Thydrophytic				
vogotation to procent.									
Additional Remarks:									
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