## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	09/13/14
Applicant:				Subregion (MLRA or LRR): MLRA 56							Pennington
	Investigators: RAJ/BEH/MRK				_Subregio	•	State:	MN			
Soil Unit:											4E4n44244
Landform:	Backslope		I atituda. 10 1		ocal Relief		0007	Detum		Sample Point	u-154n44w31-e1
Slope (%):	16 - 25%	nditions on the site	Latitude: 48.1			-96.360		Datum:	□ No	Section:	
					ai: (ii no, ex						
Are Vegetation			□aturally pro	y disturbed?		AIG	e normal circur ☑ Yes	nstances pr □ No	esent?	Township:	Dir:
Are Vegetation			Haturally pro	obiematic?				□ 140		Range:	DII.
Hydrophytic \			No					Hydric Soi	ls Present?	) No	
Wetland Hyd	•		No		<del>_</del>					nt Within A W	etland? <b>No</b>
-				down into the	ne wetland	hasin		is Tills Oal	inpling i oli	it vvitimi / vv	ctiana: 110
Remarks: An upland point on a gravelly slope leading down into the wetland basin.											
HYDROLOG	V										
		Santana (Obaala all t	the of committee N	lining							
_		icators (Check all t	tnat apply; IV	linimum of o	ne primary	or two s	econdary requi	rea):	Cacandan		
<u>Primary:</u> □	<u>:</u>	Nator		П	B11 - Salt	Crust			Secondary:	<u>:</u> B6 - Surface S	Soil Cracks
	A2 - High Wa			B13 - Aqu			Vegetated Concave Surface				
										B10 - Drainage	e Patterns
	B1 - Water M				C2 - Dry S			<b>D</b>			Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till	l€	C8 - Crayfish I	Burrows n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin I					D2 - Geomorp	
	B5 - Iron Dep			_	Other (Exp				_	D5 - FAC-Neu	
		n Visible on Aerial Ima	agery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	ained Leaves									
First Co.	-4*										
Field Observ			_		<i>(</i> 1. )						
Surface Water		Yes		n:	_ (in.)			Wetland F	lvdrology	Present?	N
Water Table Present? Yes Depth: (in.)  Wetland Hydrology Present? N											_
Saturation Present? Yes   Depth: (in.)											
Saturation Pi	resent?	Yes ⊔	Depti	n:	(in.)						
		stream gauge, monito	<u> </u>		<u> </u>	pections),	, if available:				
	orded Data (s		oring well, ae	rial photos, p	<u> </u>	pections),	, if available:				
Describe Rec	orded Data (s	stream gauge, monito	oring well, ae	rial photos, p	<u> </u>	pections),	, if available:				
Describe Reco	orded Data (s No indicato	stream gauge, monitors of wetland hydrol	oring well, ae	rial photos, p sent.	revious insp	,		adiactora )			
Describe Reconstruction Remarks:  SOILS Profile Descri	orded Data (s No indicato	stream gauge, monitors of wetland hydrological	oring well, ae logy are presented	erial photos, posent.	revious insplicator or co	onfirm th	e absence of ir				
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Describe Reconstruction Remarks:  SOILS Profile Descripation (Type: C=Concert)  Depth (In.)	orded Data (s No indicato iption (Descriptration, D=Depl	stream gauge, monitors of wetland hydrological be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	oring well, ae logy are presented to docutrix, CS=Covered	erial photos, posent.  Iment the income ded/Coated Sand	revious insplicator or co	onfirm th	e absence of in Pore Lining, M=Mat		Texture	with abundant gr	Remarks
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Describe Reconstruction Remarks:  SOILS Profile Descripe: C=Concert  Depth (In.) 0-10 10-21	orded Data (s No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  3/1  4/4	oring well, ae logy are presented to documentary, CS=Covered 100 100	crial photos, posent.  Iment the income ded/Coated Sand	revious insplicator or configurations; Local	onfirm thation: PL=P	e absence of in Pore Lining, M=Mat es Type	rix)	Texture S S		avel
Describe Reconstruction Remarks:  SOILS Profile Descripe: C=Concert  Depth (In.) 0-10 10-21	orded Data (s No indicato iption (Description, D=Depl	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  3/1  4/4	oring well, ae logy are presented to documentary, CS=Covered 100 100	erial photos, posent.  Iment the income ded/Coated Sand	revious insplicator or configurations; Local	onfirm thation: PL=P	ne absence of ine Pore Lining, M=Mat	rix)	S	with abundant gra	avel
Describe Reco	orded Data (s No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR	be to the depth nee etion, RM=Reduced Matrix  Color (Moist)  3/1  4/4	oring well, ae logy are presented to documentary, CS=Covered 100 100	crial photos, posent.  Iment the income ded/Coated Sand  Color  Color  dicators are	icator or configurations; Locations; Locatio	onfirm thation: PL=P	e absence of in Pore Lining, M=Mat es Type	rix)	S	with abundant gra	avel
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Describe Reco	orded Data (s No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR Fic Soil Field	be to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  3/1  4/4  Indicators (che	oring well, ae logy are presented to documentary, CS=Covered 100 100	crial photos, posent.  Iment the income ded/Coated Sand  Color  Color  dicators are  S5 - Sandy   S6 - Strippe	revious inspections; Local (Moist)  not preser Redox d Matrix	onfirm thation: PL=P	e absence of in Pore Lining, M=Mat es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast	with abundant gra	c Soils <sup>1</sup>
Describe Reco	iption (Description, Depointment of the Depointment	stream gauge, monitors of wetland hydrological be to the depth need to the depth nee	oring well, ae logy are presented to documentary, CS=Covered 100 100	Color  dicators are	icator or configurations; Locations; Locatio	onfirm the ation: PL=P  Mottl %  nt):	e absence of in Pore Lining, M=Mat es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	with abundant grade for Problematic Muck (LRR I, J) the Prairie Redox (curface (LRR G))	c Soils <sup>1</sup>
Describe Reco	iption (Description, Depointment of the Lorentz of	be to the depth need tion, RM=Reduced Materian Matrix  Color (Moist)  3/1 4/4  Indicators (checking Sulfide Layers (LRR F)	oring well, ae logy are presented to documentary, CS=Covered 100 100	crial photos, posent.  Iment the income ded/Coated Sand  Color  Color  Color  Solution Soluti	revious inspections in content of preserving Matrix Mucky Miner Gleyed Matrix Matrix Matrix Matrix Matrix	onfirm thation: PL=P  Mottl %  nt):	e absence of in Pore Lining, M=Mat es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	with abundant grader of the problematic for Problematic fuck (LRR I, J) to Prairie Redox (LRR G) Plains Depression of Vertic	c Soils <sup>1</sup> (LRR F, G, H)
Describe Record Remarks:  SOILS Profile Descrip (Type: C=Concerd)  Depth (In.) 0-10 10-21	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stream gauge, monitors of wetland hydrological be to the depth need to the depth need to the depth need to the determinant of the depth need to the depth ne	oring well, ae logy are presented to document trix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, posent.  Iment the inced/Coated Sand  Color  Color  Solution Service Ser	icator or congrains; Local  (Moist)  not preserved Matrix Mucky Miner Gleyed Matrix Dark Surface	onfirm the ation: PL=P  Mottl %  nt):  ral ix	e absence of in Pore Lining, M=Mat es Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red F	with abundant grader of the problematic for Problematic fluck (LRR I, J) to Prairie Redox (LRR G) Plains Depression of the problematic fluck (LRR G) Plains Depression of the problematic fluck (LRR G) arent Material	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Describe Recordance Remarks:  SOILS Profile Descripation (Type: C=Concerdance)  Depth (In.) 0-10 10-21	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth need tion, RM=Reduced Materian Matrix  Color (Moist)  3/1  4/4  Indicators (checking Sulfide Layers (LRR FGH) ck (LRR FGH) de Below Dark Surface	oring well, ae logy are presented to documentation of the logical section of the logical se	Color Color Sent.  Sent.  Color Colo	icator or congrains; Local  (Moist)  not preser  Redox d Matrix Mucky Miner Gleyed Matrix Oark Surface d Dark Surface	onfirm the ation: PL=P  Mottl %  nt):  ral ix eace	e absence of in Pore Lining, M=Mat es Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	with abundant grader of the problemation of the problematic of	c Soils <sup>1</sup> (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)
Describe Recordance Remarks:  SOILS Profile Descripe C=Concerd  Depth (In.) 0-10 10-21  NRCS Hydr	iption (Descriptration, D=Deplementation, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplementation	stream gauge, monitors of wetland hydrological be to the depth need to the depth need to the detion, RM=Reduced Material Matrix  Color (Moist)  3/1 4/4  Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ark Surface	oring well, ae logy are present the logy are presen	crial photos, posent.  Iment the income ded/Coated Sand  Color  Color  Solution Section Sectio	revious inspections in cator or cator or cator or cator or cator in cator i	monfirm the Mottle %  Mottle %  Int):	es Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	with abundant grader of the problematic for Problematic fluck (LRR I, J) to Prairie Redox (LRR G) Plains Depression of the problematic fluck (LRR G) Plains Depression of the problematic fluck (LRR G) arent Material	c 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: u-154n44w31-e1			
					•			
VEGETATION	、 .	e non-native	species.)					
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.	<u>Species Name</u>	76 COVEL	Dominani	<u>IIIu.Status</u>	Dominance rest worksheet			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.					(7 ty			
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.					(			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp 0			
	Total Cover =	0	_		FACW spp. 0			
					FAC spp. $0   X   3 = 0$			
	Stratum (Plot size: 15 ft. radius)				FACU spp. $41   X   4 = 164$			
1.					UPL spp. $\frac{25}{}$ $x = \frac{125}{}$			
2.					T-1-1 00 (A)			
3.					Total 66 (A) 289 (B)			
4. 5.					Provolence Index – P/A – 4 270			
6.					Prevalence Index = B/A = 4.379			
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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Melilotus officinalis	20	Υ	FACU				
2.	Artemisia absinthium	20	Υ	NI	* Indicators of hydric soil and wetland hydrology must be			
3.	Verbascum thapsus	5	N	UPL	present, unless disturbed or problematic.			
4.	Oenothera biennis	5	N	FACU	Definitions of Vegetation Strata:			
5.	Elymus repens	5	N	FACU				
6	Ambrosia artemisiifolia	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Achillea millefolium	5	N	FACU	height (DBH), regardless of height.			
8.	Setaria pumila	1	N	FACU	BBH www.ll.			
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.			
12. 13.					Herb - All Herbaccous (Horr Woody) Plants, regardless of Size.			
14.								
15.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	66			Troday Fines			
	Total Gover =	- 00	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.	Tatam (Fiot size): So it. Tadiae)							
2.								
3.					Hydrophytic Vegetation Present? N			
5.								
4.								
	Total Cover =	0						
Remarks: A weedy plant community. Hydrophytic vegetation is not present.								
Additional Remarks:								
, additional to								