## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/24/14
Applicant:										County:	Pennington
Investigators:		BEH/BCS		Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	153A				al Daliati		I Classification:				4E4n4E42 h4
Landform:	Talf 3 - 7%	Lotit	ıde: 48.17		cal Relief:  Longitude:		12072	Dotum		Sample Point: 	u-154n45w12-b1
Slope (%):		nditions on the site typi						Datum:	□ No	Section:	
Are Vegetation				disturbed?	i: (ii no, exp	T	e normal circum				
Are Vegetation			urally prol			Aic	✓ Yes		536111:	Township: Range:	Dir:
SUMMARY O			draily proi	ornatio:			E 163	□ 1 <b>10</b>		Range.	Dii.
			No					Hydric Soil	s Present?	<sup>o</sup> No	
Hydrophytic Vegetation Present? Wetland Hydrology Present?			No				Hydric Soils Present? Is This Sampling Poir				etland? <b>No</b>
Remarks:				from a seaso	onally-floo	ded drai					smartweed dominate the site.
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<b>,</b>	<i>,</i>	, , , , , , , , , , , , , , , , , , , ,	
HYDROLOGY	1										
		cators (Check all that	annly: Mir	nimum of one	nrimary (	or two se	econdary requir	od).			
Primary:		cators (Check all that	appiy, iviii	illitiditi oi oile	<del>s</del> primary (	OI TWO SE	econdary requir	eu).	Secondary		
Primary.  ☐ A1 - Surface Water					B11 - Salt (	Crust				<u>.</u> B6 - Surface S	oil Cracks
	A2 - High Wat	er Table			B13 - Aqua	itic Fauna					Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Ma				C2 - Dry Se			Pooto (not till	, –		Rhizospheres on Living Roots (tilled)
	B2 - Sediment B3 - Drift Dep	•			C3 - Oxidiz		spheres on Living I	Roots (not till		C8 - Crayfish E	n Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin M				_	D2 - Geomorp	
	B5 - Iron Depo	osits			Other (Expl	lain)			✓	D5 - FAC-Neu	
		n Visible on Aerial Imagery	1							D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	rationa.										
Field Observ		Vac = =	Danth		(in )						
Surface Water		Yes   U	Depth:		(in.)			Wetland H	lydrology	Present?	N
Water Table		Yes   Ves	Depth:		(in.)						<del></del>
Saturation Present? Yes   Depth: 23 (in.)											
			<u> </u>								
	orded Data (s	tream gauge, monitoring	g well, aeri	al photos, pre	vious insp	ections),	if available:				
Describe Reco	orded Data (s		g well, aeri	al photos, pre	vious insp	ections),	if available:				
Remarks:	orded Data (s	tream gauge, monitoring	g well, aeri	al photos, pre	vious insp	ections),	if available:				
Remarks:	orded Data (s No primary	tream gauge, monitoring or secondary hydrologi	y well, aeri cal indica	al photos, pre tors were obs	evious insp served.			dicators \			
Remarks: SOILS Profile Descri	orded Data (s No primary of	tream gauge, monitoring or secondary hydrologion be to the depth needed	y well, aeri cal indica	al photos, pre tors were obs	evious insposerved.	onfirm the	e absence of in				
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Remarks: SOILS Profile Descri	orded Data (s No primary of	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Control of the depth needed etion, RM=Reduced Matrix,	y well, aeri cal indica	al photos, pre tors were obs	evious insposerved.  cator or co	onfirm the	e absence of incore Lining, M=Matri		Texture		Remarks
Remarks:  SOILS Profile Descrip (Type: C=Concen	orded Data (s No primary of	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)	y well, aeri cal indica I to docun CS=Covered	al photos, pretors were obs	evious insposerved.  cator or co	onfirm the	e absence of incore Lining, M=Matri	x)	Texture		Remarks
Remarks:  SOILS Profile Descrip (Type: C=Concent	orded Data (s  No primary (  ption (Descri	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)	y well, aeri cal indica I to docun CS=Covered	al photos, pretors were obs	evious insposerved.  cator or co	onfirm the	e absence of incore Lining, M=Matri	x)		Gravel fragments	
Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8	orded Data (s  No primary  ption (Descri	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1	well, aerical indication documents of the documents of th	al photos, pretors were observed the indicated Sand G	evious insposerved.  Cator or coerains; Locat  Moist)	onfirm the ion: PL=Pe Mottle	e absence of incore Lining, M=Matri	Location	SIC	Gravel fragments	
Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-8  8-17	orded Data (s  No primary  ption (Descri	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1	well, aerical indication documents of the documents of th	al photos, pretors were observed the indicated Sand Good Color (Nature 1048)	evious insposerved.  cator or coerains; Locat  Moist)	Mottle	e absence of incore Lining, M=Matri es Type C	Location  M	SIC SC	Gravel fragments Gravel fragments	
Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-8  8-17  8-17	orded Data (s No primary of the prim	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3	well, aeri cal indica  I to docum CS=Covered  % 100 75	al photos, pretors were observed the indicated Sand Color (Nate of	evious insposerved.  cator or cograins; Locat  Moist)  5/6 2/1	onfirm the ion: PL=Pe	e absence of incore Lining, M=Matri es Type C C	Location  M M	SIC SC SC		
Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26	orded Data (s No primary of the prim	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3	well, aeri cal indica  I to docum CS=Covered  % 100 75	al photos, pretors were observed the indicated Sand Grand Color (Nature 1048)  Hue_1048  Hue_1048  Hue_1048	evious insposerved.  Cator or cograins; Locat  Moist)  5/6 2/1 5/6	Mottle % 15 10 25	e absence of incore Lining, M=Matri	Location  M M M	SIC SC SC SC		
Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26	orded Data (s No primary of the prim	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3	well, aeri cal indica  I to docum CS=Covered    %	al photos, pretors were observed the indicated Sand Grand Color (Nature 1048)  Hue_1048  Hue_1048  Hue_1048	evious insposerved.  cator or cograins; Locat  Moist)  5/6 2/1 5/6 2/1	Mottle % 15 10 25	e absence of incore Lining, M=Matri	Location  M M M	SIC SC SC SC		
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Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-8  8-17  8-17  17-26  17-26	orded Data (s No primary of the prim	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3	well, aeri cal indica  I to docum CS=Covered  % 100 75 70 here if ind	color (No. 100) Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy Re	served.  cator or co Grains; Locat  Moist)  5/6 2/1 5/6 2/1 ot present	Mottle % 15 10 25	e absence of incore Lining, M=Matri	Location  M M M M	SIC SC SC SC SC SC	Gravel fragments  for Problemation  fuck (LRR I, J)	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26 17-26  NRCS Hydri	ption (Descritration, D=Depleter) Hue_10YR Hue_5Y Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Epi	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 6/3  7/1  Indicators (check linear or secondary hydrologic between the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 6/3	well, aeri cal indica  I to docum CS=Covered  % 100 75 70 here if ind	al photos, pretors were observed to see the indicators and Grand G	served.  cator or cograins; Locat  Moist)  5/6 2/1 5/6 2/1 ot presentedox Matrix	Mottle %  15 10 25 5	e absence of incore Lining, M=Matri	Location  M M M M	SIC SC SC SC SC A9 - 1 cm M A16 - Coast	Gravel fragments  for Problemation  fuck (LRR I, J)  t Prairie Redox (	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26 17-26  NRCS Hydri	orded Data (some portion (Descriptration, Deplementation, Depl	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 6/3  7/1  Indicators (check lipedon etic	well, aeri cal indica  I to docum CS=Covered  % 100 75 70 here if ind	color (No. 100)  Color (No. 100)  Color (No. 100)  Hue_10YR	served.  cator or co Grains; Locat  Moist)  5/6 2/1 5/6 2/1 ot present edox Matrix ucky Minera	Mottle %  15 10 25 5	e absence of incore Lining, M=Matri	Location  M M M M	SIC SC SC SC SC A9 - 1 cm M A16 - Coast S7 - Dark S	Gravel fragments  for Problemation  fuck (LRR I, J)  t Prairie Redox (  furface (LRR G)	: Soils <sup>1</sup> LRR F, G, H)
Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26 17-26  NRCS Hydri	ption (Descritration, D=Depletration, D=Depletration) Hue_10YR Hue_5Y Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Epi A3 - Black History A4 - Hydroger	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1  6/3  7/1  Indicators (check line in Sulfide	well, aeri cal indica  I to docum CS=Covered    %	color (No. 100) Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G	served.  Cator or cograins; Locat  Moist)  5/6 2/1 5/6 2/1 ot presentedox Matrix ucky Mineraleyed Matrix	Mottle %  15 10 25 5	e absence of incore Lining, M=Matri	Location  M M M M	SIC SC SC SC SC SC A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Gravel fragments  for Problemation  Muck (LRR I, J)  t Prairie Redox ( Burface (LRR G)  Plains Depression	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26 17-26  NRCS Hydri	ption (Descritration, D=Depletration, D=Deplet	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 6/3  7/1  Indicators (check is sulfide Layers (LRR F)	well, aeri cal indica  to docum CS=Covered  // 100 // 75  // 70  here if ind	al photos, precedence observed tors were observed tors were observed to see the control of the c	served.  cator or co Grains; Locat  Moist)  5/6 2/1 5/6 2/1 ot present edox Matrix ucky Mineral leyed Matrix Matrix	Mottle %  15 10 25 5	e absence of incore Lining, M=Matri	Location  M M M M	SIC SC SC SC SC A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	Gravel fragments  for Problemation  fuck (LRR I, J)  t Prairie Redox (  furface (LRR G)  Plains Depression  ced Vertic	: Soils <sup>1</sup> LRR F, G, H)
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Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26 17-26  NRCS Hydri	Drided Data (some potion (Descriptration, Depleted by the potion (Description) and the p	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 6/3  7/1  Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH) cd Below Dark Surface ark Surface ark Surface	well, aeri cal indica  I to docum CS=Covered    %	al photos, prestors were observed to sent the indice of th	served.  Served.  Sator or coerains; Locat  Moist)  5/6 2/1 5/6 2/1  ot present  edox Matrix ucky Mineral leyed Matrix Matrix ark Surface pressions	Mottle %  15 10 25 5	e absence of incore Lining, M=Matri	Location  M M M O O O O O O O O O O O O O O O O	SIC SC SC SC SC SC A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Gravel fragments  for Problemation  Muck (LRR I, J)  t Prairie Redox ( Burface (LRR G)  Plains Depression  Ced Vertic  Parent Material	Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 8-17 17-26 17-26  NRCS Hydri	ption (Descritration, D=Depleteration) Hue_10YR Hue_5Y  Hue_5Y  Hue_2.5Y  A1- Histosol A2 - Histic Epic A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A11 - Depleteration A12 - Thick Discontinuous A12 - Thick Discontinuous A13 - Sandy Mic S2 - 2.5 cm	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 6/3  7/1  Indicators (check line) ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface eark Surface eark Surface lucky Mineral lucky Peat or Peat (LRR G	well, aeri cal indica  I to docum CS=Covered  70  nere if ind	al photos, prestors were observed to sent the indice of th	served.  Served.  Sator or coerains; Locat  Moist)  5/6 2/1 5/6 2/1  ot present  edox Matrix ucky Mineral leyed Matrix Matrix ark Surface pressions	Mottle %  15 10 25 5	e absence of incore Lining, M=Matri	Location  M M M O O O O O O O O O O O O O O O O	SIC SC SC SC SC SC A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	Gravel fragments  for Problemation  fuck (LRR I, J)  t Prairie Redox ( furface (LRR G)  Plains Depression  ced Vertic  Parent Material  y Shallow Dark S  ain in Remarks)	ESOILS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Gurface
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Remarks:  SOILS Profile Descrip (Type: C=Concent  Depth (In.) 0-8 8-17 17-26 17-26  NRCS Hydri	Dried Data (Some primary of the prim	tream gauge, monitoring or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, Color (Moist)  2/1 6/3  7/1  Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Peat (LRR G) cky Peat or Peat (LRR G) cky Peat or Peat (LRR G)	well, aeri cal indica  I to docum CS=Covered  70  nere if ind	al photos, prestors were observed to sent the indice of th	served.  Served.  Sator or coerains; Locat  Moist)  5/6 2/1 5/6 2/1  ot present  edox Matrix ucky Mineral leyed Matrix Matrix ark Surface pressions	Mottle %  15 10 25 5	e absence of incore Lining, M=Matri es  Type  C C C C	Location  M M M  M  H)	SIC SC SC SC SC SC A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel fragments  for Problematic  Muck (LRR I, J)  t Prairie Redox ( curface (LRR G)  Plains Depression ced Vertic Parent Material  of Shallow Dark Stain in Remarks)	ESOILS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Gurface
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-154n45w12-b1
_					
<b>VEGETATION</b>	(Species identified in all uppercase ar	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: 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
9.					4
					Total % Cover of:  Multiply by:
10.	Total Cover	0			OBL spp. 0
	Total Cover =	0	_		FACVV spp. $20$ $\times$ $2$ $=$ $40$
					FAC spp. $0 \times 3 = 0$
4	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{10}{\sqrt{1000}}$ X $4 = \frac{40}{\sqrt{10000}}$
1.					UPL spp. $_{\underline{}}$ $\times$ 5 = $_{\underline{}}$ 275
2.					
3.					Total 85 (A) 355 (B)
4.					
5.					Prevalence Index = B/A = 4.176
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	Total Cover =	0			Prevalence Index is ≤ 3.0 *
	Total Cover =		_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N.11	Problem Hydrophytic Vegetation (Explain) *
1.	Hordeum vulgare	55	Y	NI	
2.	Persicaria pensylvanica	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Ambrosia artemisiifolia	10	N	FACU	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.					
					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - 7 in herbassas (non wesay) plants, regardless of size.
13.				_	
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	85	_		
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
7.	Total Cover =	0			
Remarks:	The sample point is dominated by barley and		ania emart	wood	
Remarks.	The sample point is dominated by bariey and	a Peririsyiva	ania Sinan	weeu.	
Additional R	emarks:				
I					