WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14
Applicant:				0 (100 100)						County: State:	Pennington
Investigators				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit: Landform:	I53A Talf			_	cal Paliafe		I Classification:			Comple Deint	- w-154p44w32-o1
Slope (%):	0 - 2%		Latitude: 48.1		cal Relief: Longitude:		73806	Datum:		Sample Point	w-154n44w32-e1
. , ,		nditions on the site						✓ Yes	□ No	Section:	
Are Vegetation	·	□, or Hydrology	- · · · · · · · · · · · · · · · · · · ·		λ1 : (11 110, εχρ		e normal circum			Township:	
Are Vegetation		□, or Hydrology				/ (1	✓ Yes		COOTIL:	Range:	Dir:
SUMMARY C			platarally pro	biomano.			_ 100	_ 110		rango.	5
Hydrophytic \			No					Hydric Soi	Is Present?	? Yes	
Wetland Hyd	•		No		-					nt Within A W	etland? No
Remarks:				d dominated	by grasses	and go	ldenrods, upslo				soil was observed, but no other
	•	cators were prese			e, graces	30	, ap				
HYDROLOG'											
		esters (Check all	that apply: M	inimum of on	o primary	or two c	ocondary roqui	·od):			
Primary:		cators (Check all	triat apply, ivi	mimum of on	e primary	or two so	econdary requir	ea):	Secondary	<i>r</i> -	
	<u>·</u>	Vater			B11 - Salt (Crust				<u>·</u> B6 - Surface S	Soil Cracks
☐ A1 - Surface Water ☐ A2 - High Water Table					B13 - Aqua		1		_		Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainag	
	B1 - Water Ma				C2 - Dry Se			Dagta (not till			Rhizospheres on Living Roots (tilled
	B2 - Sediment B3 - Drift Dep	•					spheres on Living duced Iron	Roots (not till	lŧ 🗆	C8 - Crayfish	Burrows n Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin N					D2 - Geomorp	
	B5 - Iron Depo	osits			Other (Exp					D5 - FAC-Neu	
		n Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
F: 1.101											
Field Observ		_			(1)						
Surface Water		Yes	Depth		_ (in.)			Wetland F	Hydrology	Present?	N
Water Table		Yes	Depth		- (in.) - (in.)				,		
Saturation Pr	resent?	Yes □	Depth	١٠	(111)						
				'							
Describe Reco	orded Data (s	tream gauge, mon			<u> </u>	ections),	if available:				
Describe Reco	· · · · · · · · · · · · · · · · · · ·		itoring well, ae	rial photos, pr	evious insp	ections),	if available:				
Remarks:	· · · · · · · · · · · · · · · · · · ·	tream gauge, mon	itoring well, ae	rial photos, pr	evious insp	ections),	if available:				
Remarks:	No primary	tream gauge, moni or secondary hydr	itoring well, ae	rial photos, pr ators were ob	evious insposerved.	·					
Remarks: SOILS Profile Descri	No primary	tream gauge, monior secondary hydrobe to the depth ne	itoring well, ae cological indicate	rial photos, protors were obtained in the indi	evious insposerved.	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No primary	tream gauge, moni or secondary hydr	itoring well, ae cological indicate	rial photos, protors were obtained in the indi	evious insposerved.	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary hydrobe to the depth neetion, RM=Reduced Market	itoring well, ae cological indicate	rial photos, protors were obtained in the indi	evious insposerved.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrote to the depth network RM=Reduced Matrix	itoring well, ae rological indica eeded to docu atrix, CS=Covere	rial photos, protection of the content at the indicated Sand	evious insposerved. cator or co	onfirm the	e absence of in ore Lining, M=Matr es	(x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	tream gauge, monor secondary hydroperate to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand	evious insposerved. cator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth need in the de	eeded to docu atrix, CS=Covere	ment the indi	evious insposerved. cator or cograins; Locat	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	SIC	Cravel fragment	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	tream gauge, monor secondary hydroperate to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand	evious insposerved. cator or cograins; Locat Moist)	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	SIC SIC	Gravel fragments	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth need in the de	eeded to docu atrix, CS=Covere	ment the indi	evious insposerved. cator or cograins; Locat Moist)	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	SIC	Gravel fragments	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth need in the de	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand	evious insposerved. cator or cograins; Locat Moist)	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	SIC SIC	Gravel fragments	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth need in the de	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand	evious insposerved. cator or cograins; Locat Moist)	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	SIC SIC	Gravel fragments	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21	No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location	SIC SIC	Gravel fragments	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21	No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6	Mottle %	e absence of in ore Lining, M=Matr es Type C	Location	SIC SIC SIC		,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location M M	SIC SIC SIC	for Problemati	,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	No primary Iption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol	tream gauge, monitor secondary hydrotor hydrotor secondary hydrotor h	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR dicators are r	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not presented	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location	SIC SIC SIC Indicators	for Problemati Muck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	No primary iption (Descrintration, D=Deple Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (chain)	eeded to docu atrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not presented ox Matrix	Mottle % 10 5	e absence of in ore Lining, M=Matr es Type C C	Location	SIC SIC SIC Indicators A9 - 1 cm M	for Problemati Muck (LRR I, J) tt Prairie Redox	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	tream gauge, monitor secondary hydromores to the depth need on the depth need on the determinant of the depth need on th	eeded to docu atrix, CS=Covere	rial photos, protection ators were obtained by the second content of the second content	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present edox Matrix Mucky Minera	Mottle % 10 5	e absence of in ore Lining, M=Matr es Type C C	Location	SIC SIC SIC SIC Indicators A9 - 1 cm M A16 - Coas S7 - Dark S	for Problemati Muck (LRR I, J) It Prairie Redox Surface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	tream gauge, monitor secondary hydromores to the depth need on the depth need on the determinant of the depth need on th	eeded to docu atrix, CS=Covere	rial photos, productions were obtained by the second content of th	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present edox Matrix Mucky Minera Gleyed Matrix	Mottle % 10 5	e absence of in ore Lining, M=Matr es Type C C	Location	SIC SIC SIC SIC Indicators A9 - 1 cm M A16 - Coas S7 - Dark S	for Problemati Muck (LRR I, J) It Prairie Redox Surface (LRR G) Plains Depressi	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	tream gauge, monitor secondary hydromores to the depth need on the secondary matrix. Color (Moist) 2/1 5/2 Indicators (chain continuous sulfide Layers (LRR F) ck (LRR FGH)	eeded to docuatrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present edox Matrix Mucky Minera Gleyed Matrix d Matrix eark Surface	Mottle % 10 5	e absence of in ore Lining, M=Matr es Type C C	Location	SIC SIC SIC SIC Indicators A9 - 1 cm M A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red I	for Problemati Muck (LRR I, J) It Prairie Redox Surface (LRR G) Plains Depressi Iced Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	tream gauge, monitor secondary hydror secondary hydror be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon itic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	itoring well, ae rological indica eeded to docu atrix, CS=Covere % 100 85 neck here if in	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface d Dark Surface	Mottle % 10 5	e absence of in ore Lining, M=Matr es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red I TF12 - Very	for Problemati Muck (LRR I, J) It Prairie Redox Surface (LRR G) Plains Depressi Inced Vertic Parent Material Iy Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	tream gauge, monitor secondary hydror secondary hydror be to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, ae rological indica eeded to docu atrix, CS=Covere %	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface d Dark Surface pepressions	Mottle % 10 5 t):	e absence of in ore Lining, M=Matres es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red I TF12 - Very	for Problemati Muck (LRR I, J) It Prairie Redox Surface (LRR G) Plains Depressi Iced Vertic Parent Material	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mo	tream gauge, monitor secondary hydromore secondary secon	itoring well, ae rological indica eeded to docu atrix, CS=Covere %	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface d Dark Surface pepressions	Mottle % 10 5 t):	e absence of in ore Lining, M=Matres es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red I TF12 - Very	for Problemati Muck (LRR I, J) It Prairie Redox Surface (LRR G) Plains Depressi Inced Vertic Parent Material Iy Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-21 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mc S2 - 2.5 cm M S3 - 5 cm Muc	tream gauge, monitor secondary hydromores to the depth need to the	itoring well, ae rological indicate eeded to docustrix, CS=Coveres %	ment the indid/Coated Sand Color (Hue_10YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insposerved. cator or cograins; Locat Moist) 5/8 4/6 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface d Dark Surface pepressions	Mottle % 10 5 t):	e absence of in ore Lining, M=Matres es Type C C	Location	Indicators A9 - 1 cm M A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red I TF12 - Very Other (Expl	for Problemati Muck (LRR I, J) It Prairie Redox Surface (LRR G) Plains Depressi Iced Vertic Parent Material If Shallow Dark Stain in Remarks)	c Soils ¹ (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: w-154n44w32-e1
					· · · · · · · · · · · · · · · · · · ·
VEGETATIO	N (Species identified in all uppercase a	are 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: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.	i a				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.	i e				$\begin{array}{cccc} \hline OBL spp. & 0 & x & 1 = & 0 \end{array}$
	Total Cover :	= 0			FACW spp. $\frac{10}{5}$ $\times 2 = \frac{10}{10}$
					FAC spp. $\frac{20}{20}$ x 3 = $\frac{60}{60}$
Sapling/Shrub 9	Stratum (Plot size: 15 ft. radius)				OBL spp. 0
1.		1			$UPL spp. \qquad 0 \qquad x 5 = \qquad 0$
2.					
3.	<u></u>				Total 115 (A) 430 (B)
4.	<i></i>				(-)
5.					Prevalence Index = B/A = 3.739
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.	<u> </u>				Rapid Test for Hydrophytic Vegetation
10.	<u> </u>				Dominance Test is > 50%
10.	_l Total Cover :	= 0			Prevalence Index is ≤ 3.0 *
	Total Cover		_		
Had Otas (District of Grand Processing				Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)		V	FACIL	Problem Hydrophytic Vegetation (Explain) *
1.	Poa pratensis	60	Y	FACU	-
2.	Cirsium arvense	15	N	FACU	
3.	Solidago altissima	10	N	FACU	·
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:
5.	Sonchus arvensis	5	N	FAC	_
6	Andropogon gerardii	5	N	FACU	
7.	Panicum virgatum	5	N	FAC	height (DBH), regardless of height.
8.	Poa palustris	5	N	FACW	
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 :	= 115			
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.		-			
4.	<u>'</u>				
	Total Cover :	= 0			
Remarks:	Kentucky bluegrass dominates the sample				
- Komanko	remainly bracegrace deminates the earnpre	pomu			
\) omorko				
Additional R	temarks:				