## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	•									Date: County:	09/23/14	
Applicant:	• •										Pennington	
Investigators: RAJ/BJC				Subregion (MLRA or LRR): MLRA 56  NWI Classification:							MN	
Soil Unit:										Comple Deint	w-154p44w32-v1	
Landform: Slope (%):	Depression 3 - 7%		Latitude: 48.12		Longitude:		471	Datum:		Sample Point	w-154n44w33-v1	
		nditions on the site						✓ Patum.	□ No	Section:		
Are Vegetation		□, or Hydrology			<b>λ1 :</b> (11 110, θλρ		e normal circum			Township:		
Are Vegetation		□, or Hydrology					✓ Yes		CSCIII:	Range:	Dir:	
SUMMARY C			tatarany pro	biomano.			_ 100	- 110		range.	511.	
Hydrophytic \			Yes					Hydric Soi	Is Present?	Yes		
Wetland Hyd	_		Yes		-					nt Within A W	etland? <b>Yes</b>	
Remarks:				slough sedg	e in a wetl	and com	plex that also i		_		Carr. All parameters of wetla	and
	conditions a	•	,								,	
<b>HYDROLOG</b>	Υ											
		cators (Check all	that apply: M	inimum of on	e nrimary	or two se	econdary requi	-d/)•				
Primary:		Cators (Crieck all	that apply, M		e primary	OI TWO S	econdary requi	eu).	Secondary:			
<u>- 1111a. y.</u>	<u>.</u>	Vater			B11 - Salt (	Crust				B6 - Surface S	oil Cracks	
					B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro					B10 - Drainag		
	B1 - Water Ma B2 - Sediment			<ul><li>□ C2 - Dry Season Water Table</li><li>□ C3 - Oxidized Rhizospheres on Living Roots (not tillє</li></ul>							Rhizospheres on Living Roots (til	lled)
	B3 - Drift Dep	•						1100ts (110t till	lŧ 🗆	C8 - Crayfish C9 - Saturatio	n Visible on Aerial Imagery	
	B4 - Algal Mat			<ul><li>□ C4 - Presence of Reduced Iron</li><li>□ C7 - Thin Muck Surface</li><li>□ □</li></ul>							hic Position	
	B5 - Iron Depo				Other (Exp	lain)			☑	D5 - FAC-Neu		
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	ba - water-st	airieu Leaves										
Field Observ	vations:											
Surface Wate		Yes □	Depth		(in.)							
Water Table		Yes	Depth		- (in.)			Wetland F	lydrology	Present?	Υ	
Saturation Pr		Yes	Depth		- (in.)						<del></del>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Deceribe Dece	andad Data (a	4 m a m a m a m a m a m	itariaa wallaa		• • •	a ation a \	if eveilable.					
	· · ·			ial photos, pr	• • •	ections),	if available:					
Describe Reco	· · ·	tream gauge, moni f wetland hydrolog		ial photos, pr	• • •	ections),	if available:					
Remarks:	· · ·			ial photos, pr	• • •	ections),	if available:					
Remarks:	Indicators o	f wetland hydrolog	gy are present	ial photos, pr	evious insp	·		dicators.)				
Remarks:  SOILS Profile Descri	Indicators of ption (Descri		gy are present	ial photos, pro	evious insp	onfirm th	e absence of in					
Remarks:  SOILS Profile Descri	Indicators of ption (Descri	f wetland hydrolog be to the depth ne	gy are present	ial photos, pro	evious insp	onfirm th	e absence of in					
Remarks:  SOILS Profile Descri	Indicators of ption (Descri	f wetland hydrolog be to the depth ne	gy are present	ial photos, pro	evious insp	onfirm th	e absence of in ore Lining, M=Matr					
Remarks:  SOILS Profile Descri	Indicators of ption (Descri	be to the depth ne	gy are present	ial photos, pro	evious insp cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of ption (Descri	be to the depth ne etion, RM=Reduced Ma	eeded to docuratrix, CS=Covere	ment the indi	evious insp cator or co Grains; Locat	onfirm the tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture MMI	the mineral comp	Remarks onent is sandy clay loam	
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of In	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)	eeded to docur atrix, CS=Covere	ment the indi	evious inspectator or configurations; Locate Moist)	onfirm the tion: PL=P	e absence of in ore Lining, M=Matr	ix)		the mineral comp		
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of In	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1	eeded to docuratrix, CS=Covere	ment the indi	cator or co Grains; Locat Moist)	onfirm the ion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	MMI	the mineral comp		
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of In	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	eeded to docuratrix, CS=Covere	ment the indid/Coated Sand	cator or co Grains; Locat Moist)	Mottle %	e absence of in ore Lining, M=Matr es Type C	Location	MMI COS	the mineral comp		
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of In	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	eeded to docuratrix, CS=Covere	ment the indid/Coated Sand	cator or co Grains; Locat Moist)	Mottle %	e absence of in ore Lining, M=Matr es Type C	Location	MMI COS	the mineral comp		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	Indicators of In	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 6/2	eeded to docuratrix, CS=Covere	ment the indid/Coated Sand Color ( Hue_10YR Hue_5YR	cator or co Grains; Locat Moist)  5/6 3/4	Mottle %	e absence of in ore Lining, M=Matr es Type C	Location	MMI COS	the mineral comp		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Indicators of Indicators of Indicators of Intration (Descriptor)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Marix  Color (Moist)  2/1 6/2  Indicators (characters)	eeded to docuratrix, CS=Covere	ment the indicators are respectively.	cator or co Grains; Locat Moist)  5/6 3/4  not present	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location	MMI COS COS  Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) Prairie Redox	onent is sandy clay loam  C Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  6/2  Indicators (characters)	eeded to docuratrix, CS=Covere	Color ( Hue_10YR Hue_5YR  dicators are r  \$5 - Sandy R \$6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist)  5/6 3/4  not present	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location	MMI COS COS  Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth neetion, RM=Reduced Marix  Color (Moist)  2/1 6/2  Indicators (chair)	eeded to documents, CS=Covered % 100 83	Color ( Hue_10YR Hue_5YR  dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N	cator or co Grains; Locat Moist)  5/6 3/4  not present	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	onent is sandy clay loam  C Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth neetion, RM=Reduced Marix  Color (Moist)  2/1  6/2  Indicators (characters)  ipedonetic in Sulfide Layers (LRR F)	eeded to docuratrix, CS=Covere	ment the indid/Coated Sand of Color (  Hue_10YR Hue_5YR  dicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted	cator or co Grains; Locat Moist)  5/6 3/4  not presented ox Matrix Mucky Mineral Gleyed Matrix Matrix	Mottle % 15 2	e absence of in ore Lining, M=Matr es Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressioned Vertic	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	be to the depth neetion, RM=Reduced Marix  Color (Moist)  2/1 6/2  Indicators (chair)	y are present eeded to document atrix, CS=Covered    %	Color ( Hue_10YR Hue_5YR  dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N	cator or co Grains; Locat Moist)  5/6 3/4  not present edox Matrix Mucky Minera Gleyed Matrix Matrix ark Surface	mottle %  15 2 t):	e absence of in ore Lining, M=Matr es Type C C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressioned Vertic Parent Material	onent is sandy clay loam  C Soils  (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Marix  Matrix  Color (Moist)  2/1  6/2  Indicators (characters)  ipedonetic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	y are present eeded to document atrix, CS=Covered    %	Color (  Hue_10YR  Hue_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	cator or co Grains; Locat Moist)  5/6 3/4  not present edox Matrix fleyed Matrix ark Surface d Dark Surface repressions	Mottle % 15 2 t):	e absence of inore Lining, M=Matrees  Type  C C	Location	MMI COS COS  Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressioned Vertic	onent is sandy clay loam  C Soils  (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-154n44w33-v1
					-
VEGETATIO	```	are non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius)	0/ 00/107	Dominant	Ind Ctatus	Dominance Test Worksheet
1.	Species Name	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance rest worksneet
2.	J.				Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.	,				(1)
4.		<u>                                     </u>			Total Number of Dominant Species Across All Strata: 2 (B)
5.		1			rotal Number of Berninant openies Noross All Strate(B)
6.		]			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	<u></u>				(742)
8.	J				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $80   x   1 = 80$
	Total Cover =	= 0			FACW spp. 1 $\times 2 = {2}$
					FACW spp. 1
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $7   X   4 =                              $
1.	Salix petiolaris	10	Y	OBL	UPL spp. $\frac{1}{}$ $\times 5 = \frac{5}{}$
2.					
3.					Total <u>97</u> (A) <u>139</u> (B)
4.					
5.					Prevalence Index = B/A = 1.433
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					XDominance Test is > 50%
	Total Cover =	= 10	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex atherodes	70	Y	OBL	
2.	Poa pratensis	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Zizia aurea	5	N	FAC	·
4.	Cirsium arvense	2	N	FACU	Definitions of Vegetation Strata:
5.	Apocynum cannabinum	2	N	FAC	Troo was a second of a second
6 7.	Bromus inermis	1	N N	UPL FACW	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	Lysimachia ciliata	1	N N	FAC	110.g/1 (2.21.1), 1.0ga. a1000 01 110.g/11
9.	Solidago gigantea	<u> </u>	11	170	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					Supming/Sin us
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 =	= 87			
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =				
Remarks:	A sedge meadow dominated by slough sed	ge. Hydrop	hytic vege	tation is p	resent.
Additional R	Remarks:				