## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14
Applicant:	-				Cubragion					County:	Pennington
Investigators Soil Unit:	155A	RAJ/BJC			_Subregion		OF LRR): Classification:	MLRA 56		State:	MN
Landform:	Depression			Lo	ocal Relief: (		Classification.			Sample Point	w-153n44w2-b1
Slope (%):	0 - 2%		Latitude: 48		Longitude: -			Datum:			
		onditions on the si		•				☑ Yes	□ No	Section:	
Are Vegetatio		I □, or Hydrology	•			Arer	normal circum	•	esent?	Township:	2
Are Vegetation		l   □, or Hydrology	aturally p	problematic?			⊠ Yes	□ No		Range:	Dir:
Hydrophytic '			Yes	e				Hydric Soi	Is Present?	Ves	
Wetland Hyd	•		Yes		_					nt Within A W	etland? Yes
Remarks:				-	ed field. The	e commu	unity is domina				getation is disturbed by very
	recent disk	ing but most vege	etation is still	l identifiable.	All paramete	ers of wet	land condition	is are prese	ent.		
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check al	ll that apply;	Minimum of o	ne primary o	or two sec	condary requir	ed):			
Primary									Secondary:		
	A1 - Surface A2 - High Wa				B11 - Salt C B13 - Aquati					B6 - Surface S	Soil Cracks Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydrog		Odor			B10 - Drainag	
	B1 - Water M				C2 - Dry Sea						Rhizospheres on Living Roots (tilled)
	B2 - Sedimer B3 - Drift Dep	•			C3 - Oxidize C4 - Presen		heres on Living	Roots (not till		C8 - Crayfish	Burrows n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin Mu					D2 - Geomorp	
	B5 - Iron Dep				Other (Expla	ain)				D5 - FAC-Neu	
		on Visible on Aerial Ir tained Leaves	magery						Ц	D7 - Frost-He	aved Hummocks (LRR F)
_	20 110101 0										
Field Observ	vations:										
Surface Wat	er Present?	Yes 🛛	De	pth:	(in.)			Wotland H	lydrology	Procont?	Y
Water Table		Yes 🛛		pth:	(in.)				iyurology	Flesent?	
Saturation P	resent?	Yes 🗆	De	pth:	(in.)						
Describe Rec	orded Data (	straam aauga mar	aitoring wall	a antal mbataa in							
Becchibe i tee	erded Bala (	stream gauge, mor	moning well, a	aeriai photos, p	revious inspe	ections), if	f available:				
Remarks:			-		-	-		nic position	and vegeta	tion, wetland	hydrology is present.
Remarks:			-		-	-		nic position	and vegeta	ition, wetland	hydrology is present.
Remarks: SOILS	Some hydro	ology indicators m	nay not be pr	esent due to re	ecent disking	g. Based	d on geomorph		and vegeta	ition, wetland	hydrology is present.
Remarks: SOILS Profile Descri	Some hydro		eeded to doo	cument the inc	ecent disking	g. Based	d on geomorph absence of in	dicators.)	and vegeta	ition, wetland	hydrology is present.
Remarks: SOILS Profile Descri	Some hydro	ibe to the depth ne	eeded to doo	cument the inc	ecent disking	g. Based	d on geomorph absence of in re Lining, M=Matri	dicators.)	and vegeta	ition, wetland	hydrology is present.
Remarks: SOILS Profile Descri (Type: C=Concer	Some hydro	ibe to the depth ne letion, RM=Reduced M Matrix	eeded to doo Matrix, CS=Cove	cument the inc	ecent disking licator or cor Grains; Locatio	g. Based nfirm the on: PL=Pore Mottles	d on geomorph absence of in re Lining, M=Matri	dicators.)		ition, wetland	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Some hydro	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to doo Matrix, CS=Cove	cument the inc ered/Coated Sand	ecent disking	g. Based	d on geomorph absence of in re Lining, M=Matri	dicators.)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	Some hydro	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doo Matrix, CS=Cove	cument the inc ered/Coated Sand	ecent disking licator or cor Grains; Locatio	g. Based nfirm the on: PL=Pore Mottles	d on geomorph absence of in re Lining, M=Matri	dicators.)	Texture MMI		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Some hydro	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doo Matrix, CS=Cove	cument the inc ered/Coated Sand	ecent disking licator or cor Grains; Locatio	g. Based nfirm the on: PL=Pore Mottles	d on geomorph absence of in re Lining, M=Matri	dicators.)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	Some hydro	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doo Matrix, CS=Cove	cument the inc ered/Coated Sand	ecent disking licator or cor Grains; Locatio	g. Based nfirm the on: PL=Pore Mottles	d on geomorph absence of in re Lining, M=Matri	dicators.)	Texture MMI		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	Some hydro iption (Descr htration, D=Dep Hue_10YR Hue_10YR	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1	eeded to doo Matrix, CS=Cove	cument the incered/Coated Sand	ecent disking licator or cor Grains; Locatio	g. Based	d on geomorph absence of in re Lining, M=Matri	dicators.)	Texture MMI		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Some hydro iption (Descr intration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eeded to doo Matrix, CS=Cove	cument the incered/Coated Sand	ecent disking licator or cor Grains; Locatio (Moist) (Moist) not present) Redox	g. Based	d on geomorph absence of in re Lining, M=Matri s Type	dicators.)	Texture MMI FS Indicators f A9 - 1 cm M	the mineral comp for Problemati fuck (LRR I, J)	Remarks onent is fine sand
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Some hydro ption (Descr htration, D=Dep Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eeded to doo Matrix, CS=Cove	cument the incered/Coated Sand	ecent disking licator or cor Grains; Locatio (Moist) (Moist) not present) Redox d Matrix	g. Based	d on geomorph absence of in re Lining, M=Matri s Type	dicators.)	Texture MMI FS Indicators f A9 - 1 cm M A16 - Coast	the mineral comp the mineral comp for Problemati fuck (LRR I, J) Prairie Redox	Remarks Ponent is fine sand
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Some hydro iption (Descr intration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 1 Indicators (Classic	eeded to doo Matrix, CS=Cove	cument the inc ered/Coated Sand % Color 00 00 00 00 00 00 00 00 00 00 00 00 00	ecent disking licator or cor Grains; Locatio (Moist) (Moist) not present) Redox d Matrix Mucky Mineral	g. Based	d on geomorph absence of in re Lining, M=Matri s Type	dicators.)	Texture MMI FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	the mineral comp the mineral comp for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	Remarks onent is fine sand
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Some hydro ption (Descr htration, D=Dep Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 Indicators (cl bipedon stic n Sulfide Layers (LRR F)	eeded to doo Matrix, CS=Cove	cument the ince ered/Coated Sand % Color 00 00 00 indicators are 05 - Sandy 05 - Strippe 05 - St	ecent disking licator or cor Grains; Locatio (Moist) (Moist) not present) Redox d Matrix Mucky Mineral Gleyed Matrix ed Matrix	g. Based	d on geomorph absence of in re Lining, M=Matri s Type	dicators.)	Texture MMI FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	the mineral comp the mineral comp for Problemati fuck (LRR I, J) the Prairie Redox urface (LRR G) Plains Depressi ced Vertic	Remarks Ponent is fine sand
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Some hydro iption (Descr htration, D=Dep Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 1 Indicators (Cl Dipedon stic n Sulfide I Layers (LRR F) lock (LRR FGH)	eeded to doo Matrix, CS=Cove	cument the incered/Coated Sand	ecent disking	g. Based	d on geomorph absence of in re Lining, M=Matri s Type	dicators.)	Texture MMI FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	the mineral comp the mineral comp for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	Remarks         onent is fine sand         c Soils <sup>1</sup> (LRR F, G, H)         ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Some hydro iption (Descr htration, D=Dep Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 1 Indicators (C Dipedon stic n Sulfide d Layers (LRR F) ick (LRR FGH) ed Below Dark Surfac	eeded to doo Matrix, CS=Cove	indicators are S5 - Sandy S6 - Strippe F1 - Loamy F3 - Deplete F6 - Redox F7 - Deplete	ecent disking licator or cor Grains; Locatio (Moist) (Moist) (Moist) not present) Redox d Matrix Mucky Mineral Gleyed Matrix ed Matrix Dark Surface ed Dark Surface	g. Based	d on geomorph absence of in re Lining, M=Matri s Type	dicators.)	Texture MMI FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	the mineral comp the mineral comp for Problemati fuck (LRR I, J) Plains Depressi ced Vertic Parent Material Shallow Dark S	Remarks         ponent is fine sand         sonent is fine sand         c Soils <sup>1</sup> (LRR F, G, H)         ONS (LRR H, outside MLRA 72, 73)         Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Some hydro iption (Descr intration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 1 Indicators (C Dipedon stic n Sulfide d Layers (LRR F) ick (LRR FGH) ed Below Dark Surface Dark Surface lucky Mineral	eeded to doo Matrix, CS=Cove	cument the incered/Coated Sand	ecent disking	g. Based	d on geomorph absence of in re Lining, M=Matri s Type	dicators.)	Texture MMI FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	the mineral comp the mineral comp for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	Remarks         ponent is fine sand         sonent is fine sand         c Soils <sup>1</sup> (LRR F, G, H)         ONS (LRR H, outside MLRA 72, 73)         Surface
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w2-b1
		are non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)	% Cover	Dominant	Ind Status	Dominance Test Worksheet
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
2.	1	1			Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.	I	1			
	l	1			
<u>4.</u>					Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.		1			Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.	<u></u>				Drevelence Index Werkeheet
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	 Total Cover	0			OBL spp.       99       x 1 =       99         FACW spp.       0       x 2 =       0         FAC spp.       0       x 3 =       0         FACU spp.       0       x 4 =       0
	Total Cover :	=0			FACW spp. $0$ $x 2 = 0$
O a ra lita ar /Ola ra da					$FAC spp. 0 \qquad X 3 = 0$
	Stratum (Plot size: 15 ft. radius)	-			$\begin{array}{ccc} & & & \\ & & & & \\ & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total(A)(B)
<u> </u>					
5.					Prevalence Index = B/A = <u>1.000</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover :	=0			$X$ Prevalence Index is $\leq 3.0 *$
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Eleocharis palustris	80	Y	OBL	
2.	Persicaria hydropiper	5	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Eleocharis acicularis	5	N	OBL	present, unless disturbed or problematic.
4.	Scirpus pallidus	3	N	OBL	Definitions of Vegetation Strata:
5.	Beckmannia syzigachne	3	N	OBL	
6	Persicaria amphibia	3	N	OBL	<b>Tree -</b> 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.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.				_	
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover :	- 99			
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.		1			
4.	1				
	Total Cover :	= 0			
Remarks:			v commor	n spike rus	sh with many other wetland obligates present at low coverages. Hydrophytic
	vegetation is present.		5 5511101		en many enter menana congatos procent at low coverages. Thydrophytic
	Domoriko.				
Additional F	Kemarks:				
l					