WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>06/23/14</u>
Applicant:				_		County: <u>Marshall</u>				
Investigators		NTT/KRG		_Subregic	`	or LRR):	MLRA 56		State: MN	
Soil Unit:	1133A			_			I Classification	:		Wetland ID:
Landform:	Depression		- (1) - 1 - 40 4(cal Relief		100	Datus		Sample Point: w-158n48w22-b1
Slope (%):	0 - 2%	nditions on the site t	atitude: 48.49			-96.824		Datum:	□ No	Community ID: Section:
Are Vegetation					ar : (ir no, ex		e normal circur			•
Are Vegetation			aturally pro	/ disturbed?		Ale	rionnal circul ✓ Yes	nstances pre □ No	256111?	Township: Range: Dir:
SUMMARY C			laturally pro	blemanc:			<u> </u>	□ INO		Range: Dir:
Hydrophytic \			Yes					Hydric Soil	s Present?	Voc
Wetland Hyd	_		Yes		-					nt Within A Wetland? Yes
		d is a wet meadow w		side ditch do	minated h	v Flymus	renens and H			it within 74 wedand: 165
rtomanto.	The Wellan	a io a wot moadow w	itilii a road	olae alteri ae	minatoa b	y Liyiiide		ordourn jabe	atom.	
HYDROLOG	Y									
			1 1				,			
_	•	icators (Check all th	at apply; M	inimum of or	ne primary	or two s	econdary requi	red):	0	
<u>Primary:</u> ☑	<u>:</u>	\Mator		_	B11 - Salt	Cruct			Secondary:	B6 - Surface Soil Cracks
	A2 - High Wa				B11 - Sait					B8 - Sparsely Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage Patterns
	B1 - Water M	arks			C2 - Dry S	Season Wa	iter Table			C3 - Oxidized Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	•					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish Burrows
	B3 - Drift Dep					ence of Re Muck Surfa	duced Iron			C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep				Other (Exp		ace		H	D2 - Geomorphic Position D5 - FAC-Neutral Test
	•	on Visible on Aerial Imag	jery	_	Othor (EX	Jian'i)				D7 - Frost-Heaved Hummocks (LRR F)
		tained Leaves	,							,
Field Observ	vations:									
Surface Wate	er Present?	Yes ☑	Depth	: <u>1</u>	_ (in.)			Wotland H	lydrology	Present? Y
Water Table	Present?	Yes □	Depth	:	(in.)			vvetianu n	iyarology	——————————————————————————————————————
Saturation Pr	resent?	Yes □	Depth	:	_ (in.)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks: The wetland contains a small area with roughly one inch of standing water.										
				J, 22		9				
SOILS										
		ibe to the depth need								
(Type: C=Concer	ntration, D=Dep	letion, RM=Reduced Matri	x, CS=Covere	d/Coated Sand	Grains; Loca	ation: PL=P	ore Lining, M=Mat	rix)		
	T	Matrix				N 1 a 4 4 1			1	T
D = = (l= /l=)		Matrix (Maiat)		0.1	N A = ! = 1\	Mottl		Lagation		Danasaka
Depth (In.)		Color (Moist)	%	Color (IVIOIST)	%	Туре	Location	Texture	Remarks
	_									
NRCS Hydr	ic Soil Field	Indicators (chec	ck here if ind	dicators are i	not preser	nt):				
									Indiantara 4	ian Duahlamatia Saila ¹
□ A1- Histosol □ S5 - Sandy Redox □ A9 - 1cm Muck (LRR I, J)									indicators i	or Problematic Soils ¹
				•					A9 - 1cm M	uck (LRR I, J)
	A2 - Histic Ep	•		S6 - Stripped	l Matrix				A9 - 1cm M A16 - Cost F	uck (LRR I, J) Prairie Redox (LRR F, G, H)
	A2 - Histic Ep A3 - Black Hi	stic	_ 	S6 - Stripped F1 - Loamy M	l Matrix Muck Minera				A9 - 1cm M A16 - Cost I S7 - Dark S	uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G)
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge	stic n Sulfide	_ _ _ _	S6 - Stripped F1 - Loamy M F2 - Loamy 0	l Matrix Muck Minera Gleyed Matr				A9 - 1cm M A16 - Cost F S7 - Dark S F16 - High F	uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73)
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	stic n Sulfide I Layers (LRR F)	_ _ _ _	S6 - Stripped F1 - Loamy M F2 - Loamy C F3 - Depleted	l Matrix Muck Minera Gleyed Matr d Matrix	ix		_ _ _	A9 - 1cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stic n Sulfide I Layers (LRR F) Ick (LRR FGH)		S6 - Stripped F1 - Loamy M F2 - Loamy 0	l Matrix Muck Minera Gleyed Matr d Matrix Dark Surface	ix e		_ _ _	A9 - 1cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	stic n Sulfide I Layers (LRR F) Ick (LRR FGH) Ied Below Dark Surface Dark Surface		S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Matrix Muck Minera Gleyed Matr d Matrix Dark Surface d Dark Surfa Depressions	ix e ace			A9 - 1cm Me A16 - Cost I S7 - Dark S F16 - High I F18 - Reduc TF2 - Red I TF12 - Very	uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M	stic n Sulfide I Layers (LRR F) lick (LRR FGH) ed Below Dark Surface Dark Surface luck Mineral	_ _ _	S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Matrix Muck Minera Gleyed Matr d Matrix Dark Surface d Dark Surfa Depressions	ix e ace	₋RA 72, 73 of LRI		A9 - 1cm Me A16 - Cost I S7 - Dark S F16 - High I F18 - Reduc TF2 - Red I TF12 - Very	uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	stic n Sulfide I Layers (LRR F) Ick (LRR FGH) Ied Below Dark Surface Dark Surface Iuck Mineral Mucky Peat or Peat (LRF	□ □ □ R G, H)	S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Matrix Muck Minera Gleyed Matr d Matrix Dark Surface d Dark Surfa Depressions	ix e ace	₋RA 72, 73 of LRI		A9 - 1cm Mark S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks)
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	stic n Sulfide I Layers (LRR F) Ick (LRR FGH) Ied Below Dark Surface Dark Surface Iuck Mineral Mucky Peat or Peat (LRR Icky Peat or Peat (LRR F	□ □ □ R G, H)	S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Matrix Muck Minera Gleyed Matr d Matrix Dark Surface d Dark Surfa Depressions	ix e ace	.RA 72, 73 of LR∣		A9 - 1cm Man A16 - Cost F S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain Indicators of F	Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks)
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	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	stic n Sulfide I Layers (LRR F) lock (LRR FGH) led Below Dark Surface Park Surface luck Mineral Mucky Peat or Peat (LRR Ficky Peat or Peat (LRR Ficky Peat Matrix	□ □ □ R G, H)	S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High P	Matrix Muck Minera Gleyed Matr d Matrix Dark Surface d Dark Surfa Depressions lains Depres	ix e ace		R H)	A9 - 1cm Mi A16 - Cost I S7 - Dark S F16 - High I F18 - Reduct TF2 - Red I TF12 - Very Other (Explanation	Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-158n48w22-b1			
VEGETATIO		e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.					N			
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(A)			
3.								
4.					Total Number of Dominant Species Across All Strata:(B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$			
	Total Cover =	0	_		FACW spp. $\frac{35}{15}$ $x = \frac{70}{45}$ FAC spp. $\frac{15}{15}$ $x = \frac{45}{15}$			
					FAC spp. $\frac{15}{15}$ $\times 3 = \frac{45}{15}$			
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{45}{0}$ $x = \frac{180}{0}$ UPL spp. $\frac{45}{0}$ $x = \frac{1}{0}$			
1.					UPL spp. $0 x 5 = 0$			
2.								
3.					Total 100 (A) 300 (B)			
4.								
5.					Prevalence Index = B/A = 3.000			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Elymus repens	35	Υ	FACU				
2.	Hordeum jubatum	35	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Rumex crispus	10	N	FAC	present, unless disturbed or problematic.			
4.	Poa pratensis	10	N	FACU	Definitions of Vegetation Strata:			
5.	Apocynum cannabinum	5	N	FAC				
6	Carex pellita	5	N	OBL	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.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	100			The state of the s			
	Total Cover =	100	_					
Moody Vino S	tratum (Plot size: 30 ft. radius)							
1	tratum (Piot Size. 30 it. radius)							
2.								
3.					Hydrophytic Vocatation Brocant?			
5.					Hydrophytic Vegetation Present? Y			
4.	Total Cover	0						
Total Cover = 0								
Remarks: The vegetation is a mix of wetland and upland species dominated by wild rye and foxtail barley.								
Additional Remarks:								
I								