WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	09/11/14
Applicant:				Subragion (MLDA			I DD): AI DA 50			County:	Pennington
Investigators		RAJ/BEH/MRK			Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit: Landform:	170A Talf				ool Doliefu		I Classification:	PEMAG		Commis Deint	154p45w24_o4
Slope (%):	3 - 7%		Latitude: 48.14		cal Relief: Longitude:		477	Datum:		Sample Point: 	u-154n45w24-a1
. , ,		onditions on the sit						✓ Yes	□ No	Section:	
Are Vegetation		I ☑, or Hydrology	, , , , , , , , , , , , , , , , , , ,		(II 110, exp	1	e normal circun			Township:	
Are Vegetation		l □, or Hydrology				/ (10	✓ Yes		COCITE	Range:	Dir:
SUMMARY C			Platarany pro-	orornatio:			_ 100	_ 110		range.	511.
Hydrophytic '			No					Hvdric Soi	ls Present?	Yes	
Wetland Hyd	•		No		•					nt Within A W	etland? No
Remarks:				getation and	soils are	disturbed	d by recent tilla	_			VI wetland, but the site has no
		getation or hydrolo		•			•	•			,
HYDROLOG		,	07	,	,	,	'				
	drology Ind	icators (Check all	l that apply; Mi	nimum of on	e primary	or two se	econdary requi	red):	Socondary		
	<u>.</u> A1 - Surface	Water			B11 - Salt	Crust			Secondary:	<u>.</u> B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage	e Patterns
	B1 - Water M				C2 - Dry So			Danta (mat till			Rhizospheres on Living Roots (tilled)
	B2 - Sedimer B3 - Drift Der	•					spheres on Living duced Iron	Roots (not till	• -	C8 - Crayfish E	Burrows n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp	
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neu	
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Obser	votiono										
		Vaa 👨	Donath		(in)						
Surface Wat		Yes □ Yes □			(in.)			Wetland F	lydrology	Present?	N
Water Table Saturation P		Yes □ Yes □	Depth: Depth:		(in.) (in.)						_
Saturation	resent!	162 -	Deptii.		, (111. <i>)</i>						
			 								
		stream gauge, mon			evious insp	ections),	if available:				
Describe Rec Remarks:		stream gauge, mon			evious insp	ections),	if available:				
Remarks:					evious insp	ections),	if available:				
Remarks:	No indicato	rs of wetland hydro	ology are prese	ent.				odicators)			
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology are prese	ent. nent the indi	cator or co	onfirm the	e absence of ir				
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Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology are prese	ent. nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydro ibe to the depth ne etion, RM=Reduced M	ology are prese	ent. nent the indi	cator or co Grains; Loca	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to docun	ent. nent the indi /Coated Sand (cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	rix)		fine sand	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13	No indicato iption (Description, D=Dep	rs of wetland hydro ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to docun	nent the individual of the control o	cator or co Grains; Locat Moist)	onfirm the	e absence of in ore Lining, M=Matr	rix)	SCL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	eeded to docundatrix, CS=Covered	cent. nent the individual of the content of the co	Cator or co Grains; Locat Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type C	Location M	SCL SCL	fine sand	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13	No indicato iption (Description, D=Dep Hue_10YR Hue_5Y	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	eeded to docundatrix, CS=Covered	cont. Color (I Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 7/8 2/1	onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr es Type	Location	SCL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19	No indicato iption (Description, D=Dep	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1	eeded to docun latrix, CS=Covered % 100 89	cent. nent the individual of the content of the co	Cator or co Grains; Locat Moist) 7/8 2/1	Mottle %	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SCL SCL SCL	fine sand	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19	No indicato iption (Description, D=Dep Hue_10YR Hue_5Y	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1	eeded to docun latrix, CS=Covered % 100 89	cont. Color (I Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 7/8 2/1	Mottle %	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SCL SCL SCL	fine sand	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25	No indicato iption (Description, D=Dep Hue_10YR Hue_5Y	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4	eeded to docun latrix, CS=Covered % 100 89	Color (I Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Local Moist) 7/8 2/1 6/8	Mottle Mottle 1 10 10	e absence of ir ore Lining, M=Matr es Type C C C	Location M M	SCL SCL SCL LFS	fine sand streaks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	Hue_10YR Hue_5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black Hi	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (chapped on stic)	eeded to documents, CS=Covered % 100 89	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Cator or co Grains; Local Moist) 7/8 2/1 6/8 not presented ox Matrix lucky Mineral	Mottle Mottle 1 10 10 t):	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M	SCL SCL SCL LFS Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	fine sand streaks for Problemation fuck (LRR I, J) r Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	Hue_10YR Hue_5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (chappedonestic in Sulfide	eeded to documentatrix, CS=Covered % 100 89 heck here if index 100 10	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Loamy N F2 - Loamy O	Moist) 7/8 2/1 6/8 aot presentedox Matrix lucky Mineraleleyed Matrix	Mottle Mottle 1 10 10 t):	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M	SCL SCL SCL LFS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	fine sand streaks for Problemation fuck (LRR I, J) reprairie Redox (urface (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	Hue_10YR Hue_5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (chappedon stic in Sulfide is Layers (LRR F)	eeded to document with the second sec	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Color	Moist) 7/8 2/1 6/8 aot presen edox Matrix lucky Mineraleyed Matrix Matrix	Mottle % 1 10 10 t):	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M	SCL SCL SCL LFS Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	fine sand streaks for Problemation fuck (LRR I, J) reprime Redox (urface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	iption (Description, D=Deportration, D=Deportr	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (chapted on Stice on Sulfide on Sulfide on Sulfide on Stick (LRR FGH) on Stick (LRR FGH) on Sulface on Sulfide	eeded to document with the second sec	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Color	Cator or co Grains; Local Moist) 7/8 2/1 6/8 oot presented ox Matrix Sucky Mineral Matrix Mineral Matrix ark Surface Dark Surface	mottle Mottle % 1 10 10 t):	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M	SCL SCL SCL LFS Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	fine sand streaks for Problemation fuck (LRR I, J) reprime Redox (urface (LRR G) Plains Depression ced Vertic	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	Hue_10YR Hue_5Y Hue_2.5Y Hue_2.5Y A1- Histosol 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	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (characters) ipedon stic in Sulfide I Layers (LRR F) ick (LRR FGH) ick (LRR FGH) ick (BR FGH) ick (BR FGH) ick Surface in Surface	ceded to document with the second sec	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Color	Moist) 7/8 2/1 6/8 aot presen edox Matrix lucky Mineral leyed Matrix ark Surface Dark Surface epressions	Mottle % 1 10 10 t):	e absence of inore Lining, M=Matroes Type C C C	Location	SCL SCL SCL LFS Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	fine sand streaks for Problemation fuck (LRR I, J) te Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material te Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y Hue_5Y Hue_5Y A1- Histosol 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 S3 - 5 cm Mu	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (chapted on Sulfide of Layers (LRR FGH) of Below Dark Surface of Surface of Lucky Mineral Mucky Peat or Peat (LRCky Pe	ceded to document with the second sec	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Color	Moist) 7/8 2/1 6/8 aot presen edox Matrix lucky Mineral leyed Matrix ark Surface Dark Surface epressions	Mottle % 1 10 10 t):	e absence of inore Lining, M=Matroes Type C C C	Location	SCL SCL SCL LFS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	fine sand streaks for Problematic fuck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	Hue_10YR Hue_5Y Hue_2.5Y Hue_2.5Y A1- Histosol 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	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (chapted on Sulfide of Layers (LRR FGH) of Below Dark Surface of Surface of Lucky Mineral Mucky Peat or Peat (LRCky Pe	ceded to document with the second sec	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Color	Moist) 7/8 2/1 6/8 aot presen edox Matrix lucky Mineral leyed Matrix ark Surface Dark Surface epressions	Mottle % 1 10 10 t):	e absence of inore Lining, M=Matroes Type C C C	Location	SCL SCL SCL LFS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	fine sand streaks for Problemation fuck (LRR I, J) te Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material te Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 19-25 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y Hue_5Y Hue_2.5Y A1- Histosol 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 S3 - 5 cm M S4 - Sandy G	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 5/4 Indicators (characters) ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ick Surface ilucky Mineral Mucky Peat or Peat (LR) icky Peat or Peat (LR)	ceded to document with the second sec	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Color	Moist) 7/8 2/1 6/8 aot presen edox Matrix lucky Mineral Bleyed Matrix Matrix ark Surface Dark Surface epressions ains Depres	Mottle % 1 10 10 t):	e absence of inore Lining, M=Matroes Type C C C C A C C C C C C	Location	SCL SCL SCL LFS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	fine sand streaks for Problematic fuck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils ¹ (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: u-154n45w24-a1
					•
VEGETATION	N (Species identified in all uppercase a	are non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:1 (B)
5.					
6.					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.					Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 3 x 4 = 12 UPL spp. 40 x 5 = 200
	Total Cover	=0	FACW spp. $0 X 2 = 0$		
					FAC spp. $0 X 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $3 X 4 = $
1.					UPL spp. 40 $X 5 = 200$
2.]			
3.					Total <u>43</u> (A) <u>212</u> (B)
4.]			
5.]			Prevalence Index = B/A = 4.930
6.]			
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover	= 0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Erucastrum gallicum	40	Υ	NI	
2.	Setaria pumila	1	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Artemisia biennis	1	N	FACU	present, unless disturbed or problematic.
4.	Solanum ptycanthum	1	N	FACU	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.		-			
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.		1			
14.	1				
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover	= 43			Troody Tillos
	Total Cover	- 43	_		
Mandy Vina Ct	rotum (Diet eizer 20 ft medius)				
1	ratum (Plot size: 30 ft. radius)	1			
2.					
					Undrambutia Vagatatian Brasanta
3.	<u> </u>				Hydrophytic Vegetation Present? N
5.	<u> </u>				
4.	Total Cavar				
Domorto	Total Cover		v rocontly		annual woods. The vegetation is disturbed from recent tillage. I hydrophytic
Remarks:	•	d bearanimok	y recently	emergea	annual weeds. The vegetation is disturbed from recent tillage. Hydrophytic
	vegetation is not present.				
Additional R	Remarks:				