WETLAND DETERMINATION DATA FORM Great Plains Region

D		Lop	1							L D - (-)	00/00/4 4
Project/Site:		L3R	-							Date:	09/23/14 Maraball
Applicant:			-		Subragion	(MIDA or IDE	or LRR): MLRA 56			County: State:	Marshall MN
Investigators Soil Unit:					Subregion	MLRA or LRF) NWI Classit	· —	WILKA 30		State.	IVIIN
Landform:	Depression			cal Relief: C		ilcalion			Sample Point:	w-155n45w34-a1	
Slope (%):	8 - 15%		48.21		Longitude: -			Datum:			W 1001140W04 U1
. , ,		onditions on the site typica							□ No	Section:	
Are Vegetation				disturbed?	(, 67,61.6.	Are norma	l circums			Township:	
Are Vegetation			•	olematic?		✓		□ No		Range:	Dir:
SUMMARY (, , , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							- 151g = 1	
Hydrophytic '			Yes				ŀ	Hydric Soil	s Present?	Yes	
Wetland Hyd			Yes		-		_			t Within A W	etland? Yes
Remarks:		d is a wet meadow located	within	a mowed ro	adside ditch	and dominate					
								J		, ,	
HYDROLOG	Υ										
		icators (Check all that ap	nlv: Mir	nimum of on	e primary or	two secondar	rv require	۵ ۲).			
Primary	•	icators (Check all that ap	piy, iviii	ilitiatii oi oii	e primary or	two secondar	ry require	. u).	Secondary:		
<u> </u>	A1 - Surface	Water			B11 - Salt Cr	ust				B6 - Surface S	oil Cracks
	A2 - High Wa	ter Table			B13 - Aquatio	Fauna				B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturation					n Sulfide Odor				B10 - Drainage	
	B1 - Water M B2 - Sedimer					son Water Table I Rhizospheres o		Pooto (pot till		C3 - Oxidized I	Rhizospheres on Living Roots (tilled
	B3 - Drift Dep	•				e of Reduced Ird		נוטנ (ווטנ נווופ		-	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin Mu		511		☑	D2 - Geomorp	
	B5 - Iron Dep				Other (Explai	n)			✓	D5 - FAC-Neut	tral Test
		on Visible on Aerial Imagery								D7 - Frost-Hea	eved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Observ											
Field Obser			5		(!:)						
Surface Wat		Yes	Depth:		. (in.)		1	Wetland H	lydrology l	Present?	Υ
Water Table		Yes	Depth:		. (in.)				, ,,		<u>—</u>
Saturation P	resent?	Yes	Depth:		_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (stream gauge, monitoring w	ell, aeri	al photos, pr	evious inspec	tions), if availa	able:				
Describe Rec Remarks:	<u> </u>	stream gauge, monitoring w hydrology indicators are p				<u> </u>		ophytic ve	getation an	d landscape ր	position.
Remarks:	<u> </u>					<u> </u>		ophytic ve	getation an	d landscape բ	position.
Remarks:	No primary	hydrology indicators are p	resent.	Wetland hy	drology is a	ssumed based	d on hydr		getation an	d landscape բ	position.
Remarks: SOILS Profile Descri	No primary	hydrology indicators are p	resent.	Wetland hy	rdrology is a	ssumed based	d on hydr	licators.)	getation an	d landscape բ	position.
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Remarks: SOILS Profile Descri	No primary	hydrology indicators are particles in the depth needed to etion, RM=Reduced Matrix, CS=	resent.	Wetland hy	rdrology is a	ssumed based firm the absen n: PL=Pore Lining	d on hydr	licators.)	getation an	d landscape p	position.
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=	docum Covered	Wetland hy	cator or con	firm the absen	d on hydr nce of ind g, M=Matrix	licators.)		d landscape p	
Remarks: SOILS Profile Descri	No primary	hydrology indicators are particles in the depth needed to etion, RM=Reduced Matrix, CS=	resent.	Wetland hy	cator or con	firm the absen	d on hydr	licators.)	getation an Texture	d landscape p	Position. Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	oresent. o docum Covered	Netland hy	cator or con Grains; Location	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	licators.)		d landscape p	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	oresent. o docum Covered	Wetland hy	cator or con Grains; Location	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	licators.)		d landscape p	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Description, D=Deplementation, D=Deplementation)	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	% covered % re if ind	Color (cator or con Grains; Location Moist)	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	Location	Texture Indicators f	or Problematic	Remarks
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) NRCS Hydr	No primary iption (Description, D=Depletion) ric Soil Field A1- Histosol	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) Indicators (check here)	% covered % re if ind	Color (icators are r	cator or congrains; Location Moist) not present):	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	Location	Texture Indicators f A9 - 1 cm M	or Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, Depoint Intration, Depoint Int	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) Indicators (check here)	% covered % re if ind	Color (S5 - Sandy R S6 - Stripped	cator or con Grains; Location Moist) Moist) not present): edox Matrix	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast	or Problemation	Remarks
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) NRCS Hydr	iption (Description, D=Deplementation, D=Deplementation) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histosol	hydrology indicators are particular indicators are particular indicators are particular indicators are particular indicators indicat	% re if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or congrains; Location Moist) Mot present): edox Matrix Mucky Mineral	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	or Problemation	Remarks Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descrication (Type: C=Concert Depth (In.) NRCS Hydr	iption (Description, Depoint Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) Indicators (check here) Sipedon stic on Sulfide	% we if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or con Grains; Location Moist) Moist) oot present): edox Matrix Mucky Mineral Bleyed Matrix	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	or Problemation Juck (LRR I, J) Prairie Redox (Jurface (LRR G) Plains Depression	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, Depoint attention, Depoint att	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) Indicators (check here) Sipedon stic in Sulfide it Layers (LRR F)	% gresent. docum covered % re if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or congrains; Location Moist) Hot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix	firm the absence: PL=Pore Lining Mottles % Ty	d on hydr nce of ind g, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	or Problemation Juck (LRR I, J) Prairie Redox (Jurface (LRR G) Plains Depression	Remarks Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descrication (Type: C=Concert Depth (In.) NRCS Hydr	iption (Description, D=Depinion) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) Indicators (check here) Sipedon stic on Sulfide of Layers (LRR F) Jock (LRR FGH) Jock (LRR FGH) Jock Below Dark Surface	% we if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or congrains; Location Woist) Hot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface	firm the absence: Mottles Ty	d on hydr nce of ind g, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descrication (Type: C=Concert Depth (In.) NRCS Hydr	iption (Description, D=Depinion, D=Depinio	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) Indicators (check here) Sipedon (Stice on Sulfide of Layers (LRR F)) Sick (LRR FGH) Sick (LRR FGH) Sick (LRR FGH) Sick Surface Since of Surface Si	% which is the control of the contr	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface Dark Surface epressions	firm the absence: Mottles Mottles	d on hydr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (lurface (LRR G) Plains Depression red Vertic Parent Material	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descrication (Type: C=Concert Depth (In.) NRCS Hydre Descrication (Type: C=Concert) NRCS Hydre Descrication (Type: C=Concert)	No primary iption (Description, D=Depinion) A1- Histosol A2 - Histic Epinion A3 - Black History 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	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) Indicators (check here) Sipedon (check here) Sick (LRR FGH)	% re if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Location Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface Dark Surface epressions	firm the absence: Mottles Mottles	d on hydr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	Remarks Soils¹ 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-155n45w34-a1				
					· •				
VEGETATIO	N (Species identified in all uppercase are	e 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: 3 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.					(
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.					(A/D)				
					Prevalence Index Worksheet				
8.									
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 25 $x 1 = 25$				
	Total Cover =	0	OBL spp. 25 $x 1 = 25$ $x 2 = 120$						
					FAC spp. $10 X 3 = 30$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$				
1.					UPL spp 0				
2.									
3.					Total 95 (A) 175 (B)				
4.									
5.					Prevalence Index = $B/A = 1.842$				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	Tital				X Dominance Test is > 50%				
	Total Cover =	0	<u></u>		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Spartina pectinata	40	Υ	FACW					
2.	Carex pellita	25	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Phalaris arundinacea	20	Υ	FACW	present, unless disturbed or problematic.				
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:				
5.	- Contago gigantos			1710					
6					Tree - Weeds plants 2 in (7 Care) as reason in diameter at breast				
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
					noight (2211), regardiose of noight				
8.					O - 1 - 101 - 1 Weeds pleate less than 2 in DDLL regardless of height				
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 =	95							
	Total Gover –								
Moody Vinc Ct	ratum (Plat size: 20 ft radius)								
	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?Y				
5.									
4.									
	Total Cover =	0							
Remarks:	The wetland vegetation is dominated by prair	rie cord gra	ass, reed o	canary gra	ss, and woolly sedge with a mixture of other plants commonly found within				
	roadside ditches in the region.	3.1	,	7 9 -					
Additional Demonstrat									
Additional Remarks:									