## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/04/14	
Applicant:				Subregion (MLRA or LR				ALDD): MIDA 50		County:	Marshall	
	nvestigators: BEH/MRK				_Subregio	•				State:	MN	
Soil Unit:	I66A			_	ool Doliefu		Classification:			 	w 156p17w2 o1	
Landform: Slope (%):	Depression 0 - 2%		atitude: 48.3		cal Relief: Longitude:		<u>8501667</u>	Datum:	1	Sample Point:	w-156n47w2-a1	
		onditions on the site t						✓ Yes	□ No	Section:		
Are Vegetation			•	y disturbed?	<b>21.</b> (11.110, 0.7)		normal circun			Township:		
Are Vegetation			•	oblematic?		7 (10	✓ Yes		000110.	Range:	Dir:	
SUMMARY C			laterally pr				_ 100	_ 110		r tarigo:	5	
Hydrophytic \			Yes					Hydric Soi	ls Present?	Yes		
Wetland Hyd	•		Yes		_					nt Within A W	etland? Yes	
Remarks:			ated in a ro	adside ditch	dominated	by cattai	il species and f				a gravel road and a corn	field.
							•					
<b>HYDROLOG</b>	Y											
		licators (Check all th	at apply: M	linimum of on	e primary	or two se	econdary requi	.eq).				
Primary:		iloators (Oricon air tir	iat apply, iv		c primary	or two se	soonaary requi	cu).	Secondary:			
	A1 - Surface	Water			B11 - Salt (	Crust				B6 - Surface S	oil Cracks	
□ A2 - High Water Table					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturation B1 - Water M				C1 - Hydro					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimer			<ul><li>□ C2 - Dry Season Water Table</li><li>□ C3 - Oxidized Rhizospheres on Living Roots (not tille</li><li>□</li></ul>						C8 - Crayfish E		is (tilled)
	B3 - Drift Dep	oosits		□ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □							n Visible on Aerial Imagery	
✓	B4 - Algal Ma										hic Position	
	B5 - Iron Dep	oosits on Visible on Aerial Imag	ıorv		Other (Exp	lain)				D5 - FAC-Neut	tral Test aved Hummocks (LRR F)	
		tained Leaves	iei y						_	D1 - 1103t-1168	ived Hammocks (LIXIX I )	
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dept	h:	(in.)			<b>VA</b>		- 40		
Water Table		Yes □		n:	(in.)			Wetland F	lydrology l	Present?	Υ	
Saturation Pr		Yes □	Deptl	n:	- (in.)							
Describe Reco	orded Data (	stream gauge monitor	ring well ae	rial photos pr	evious insp	ections)	if available:					
		stream gauge, monitor			evious insp	ections),	if available:					
Describe Reco		stream gauge, monitor at is present in portion			evious insp	ections),	if available:					
Remarks:					evious insp	ections),	if available:					
Remarks:  SOILS Profile Descri	An algal ma	at is present in portion ibe to the depth need	ns of the di	tch.	cator or co	onfirm the	e absence of in					
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Remarks:  SOILS Profile Descri	An algal ma	ibe to the depth need	ns of the di	tch.	cator or co	onfirm the	e absence of in ore Lining, M=Matr					
Remarks:  SOILS Profile Descri (Type: C=Concer	An algal ma	ibe to the depth need letion, RM=Reduced Matrix	ns of the di	tch.  Iment the indied/Coated Sand	cator or co	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr	ix)				
Remarks:  SOILS Profile Descri	An algal ma	ibe to the depth need	ns of the di	tch.	cator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer	An algal ma	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)	ns of the di	tch.  Iment the indicated Sand  Color (	cator or co	Mottle	e absence of in ore Lining, M=Matr es Type	ix)	Texture		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	An algal manufacture of the second of the se	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)	ns of the di	color ( Color ( S5 - Sandy F	cator or co	Mottle	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer	An algal maniption (Description (Description, Dependent of the Contraction, Dependent of the Contraction)  A1- Histosol A2 - Histic Ep	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (checking)	ns of the di	color (  S5 - Sandy F S6 - Stripped	cator or co Grains; Local Moist)  not presented	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	An algal maniption (Description (Description, Depoint and Depoint	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (checking the color stice)	ns of the di	color ( S5 - Sandy F S6 - Stripped F1 - Loamy N	cator or co Grains; Local Moist)  not presentedox Matrix Mucky Minera	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	An algal manipulation (Description (Description, D=Deportration, D=Deportratio	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check on Sulfide ed Layers (LRR F)	ns of the di	color ( S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix Matrix	Mottle  Mottle  // // // // // // // // // // // // /	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	An algal manipulation (Description (Description), D=Deportration, D=Deportrati	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check on Sulfide d Layers (LRR F) lick (LRR FGH)	ns of the dided to document to decide to document to d	color (  S5 - Sandy F S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix Matrix Matrix Park Surface	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Plated Vertic Parent Material	E Soils <sup>1</sup> ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	An algal manufacture of the Analgal manufacture	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check on Sulfide d Layers (LRR F) lick (LRR FGH) led Below Dark Surface	ns of the dided to docux, CS=Covered %	color ( S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox E F7 - Depleted	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix Mucky Minera Gleyed Matrix Park Surface	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	E Soils <sup>1</sup> ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	An algal manipulation (Description (Description), D=Deportmentation, D	ibe to the depth need letion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check of the color stick of the color stick of the color stick of the color stick (LRR FGH) and Below Dark Surface for Surface flucky Mineral Mucky Peat or Peat (LRR FR FICK) Peat or Peat (LRR FICK)	ns of the dided to document with the do	color (  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox E F7 - Depleted F8 - Redox E	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix ark Surface ark Surface Dark Surface	Mottle % tion: PL=Po	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)  Surface	e present,
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n47w2-a1
VEGETATIO	` ` '	e non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Opedios Ivalino</u>	<u> 70 OOVCI</u>	Dominant	<u>ma.otatas</u>	Dominance Test Workshoot
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					(
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $35 \times 1 = 35$
	Total Cover =	0			FACW spp. ${20}$ $\times$ $2 = {40}$
	•				FACW spp. 20
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0   x   4 = 0$
1.					UPL spp. $0   x   5 = 0$
2.					
3.					Total 105 (A) 225 (B)
4.					
5.					Prevalence Index = $B/A = 2.143$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					X Rapid Test for Hydrophytic Vegetation
10.					X 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.	Equisetum arvense	50	Υ	FAC	
2.	Typha angustifolia	20	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Typha latifolia	10	N	OBL	present, unless disturbed or problematic.
4.	Rumex stenophyllus	5	N	FACW	Definitions of Vegetation Strata:
5.	Alisma triviale	5	N	OBL	
6	Agrostis gigantea	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Hordeum jubatum	5	N	FACW	height (DBH), regardless of height.
8.	Spartina pectinata	5	N	FACW	
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
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 =	105			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.	Tatal Occurs				
Damada	Total Cover =	0			
Remarks:	Field horsetail dominates the site; cattail spe	cies are al	so prevale	ent.	
Additional R	Remarks:				