## WETLAND DETERMINATION DATA FORM Great Plains Region

F											
Project/Site:		L3R								Date:	06/24/14
Applicant:				Cultura sila sa (MILDA a sa LDDA).				141 5 4 50		County:	Marshall
	Investigators: BCS/BEH			Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	I15A			_	aal Daliafi		Classification	·		Commis Doint	w 156p16w22 o1
Landform: Slope (%):	Depression 0 - 2%		de: 48.29		cal Relief:	-96.5782	53500	Datum:		Sample Point	w-156n46w33-a1
		onditions on the site typic						✓ Ves	□ No	Section:	
Are Vegetati				disturbed?	<b>21.1</b> (11.110, 0X)		normal circun			Township:	
Are Vegetati			•	olematic?		7 (10)	✓ Yes		000111.	Range:	Dir:
SUMMARY (			, , , , , , , , , , , , , , , , , , ,				. 00	_ , 10		r tai igo:	
Hydrophytic			Yes					Hydric Soi	Is Present?	Yes	
Wetland Hyd	•		Yes		-					t Within A W	etland? <b>Yes</b>
Remarks:			ditch do	minated by	narrow-lea	af cattail a	ınd Torrey's ru				agricultural soybean field.
				· ·			•				
<b>HYDROLOG</b>	Υ										
		icators (Check all that a	nnly: Mir	nimum of on	e nrimary	or two sec	condary requi	red):			
Primary	•	icators (Orieck all triat a	ippiy, iviii		e primary	OI TWO 360	condary requi	ied).	Secondary:		
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
☑	A3 - Saturation			□ C1 - Hydrogen Sulfide Odor □ □ □ C2 - Dry Season Water Table □							e Patterns
	B1 - Water M B2 - Sedimer						er Table heres on Living	Roots (not till	⊔  • □	C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•				ence of Redu		rtooto (not tiii			n Visible on Aerial Imagery
	B4 - Algal Ma					Muck Surfac	e		✓	D2 - Geomorp	hic Position
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
		on Visible on Aerial Imagery tained Leaves								D7 - Frost-Hea	aved Hummocks (LRR F)
	D3 - Water-O	tailed Leaves									
Field Obser	vations:										
Surface Wat		Yes □	Depth:		(in.)						
Water Table		Yes	Depth:		- (in.)			Wetland F	lydrology l	Present?	Υ
Saturation P		Yes ☑	Depth:		- (in.)						<del></del>
Cataration	. 000111.	. 00	_ 0   0   0   0	•							
Dagariha Dag	and ad Data /		المدال		<u> </u>	ti > :f	f accellable.				
		stream gauge, monitoring	-	• • •	evious insp			d - C 10-	la tha na ala	-1-1	
Describe Rec Remarks:		stream gauge, monitoring saturated at the surface.	-	• • •	evious insp			rictions with	in the roads	side ditch.	
Remarks:			-	• • •	evious insp			rictions with	in the roads	side ditch.	
Remarks:	The soil is	saturated at the surface.	The water	er table was	evious insp not obser	rved due to	o digging rest		in the roads	side ditch.	
Remarks:  SOILS Profile Descr	The soil is		The wate	er table was	evious insp not obser	rved due to	o digging rest	ndicators.)	in the roads	side ditch.	
Remarks:  SOILS Profile Descr	The soil is	saturated at the surface.	The wate	er table was	evious insp not obser	rved due to	o digging rest	ndicators.)	in the roads	side ditch.	
Remarks:  SOILS Profile Descr	The soil is	saturated at the surface.	The wate	er table was	evious insp not obser	rved due to	o digging rest absence of in re Lining, M=Matr	ndicators.)	in the roads	side ditch.	
Remarks:  SOILS Profile Descr	The soil is	ibe to the depth needed letion, RM=Reduced Matrix, Co	The wate	er table was	evious insp not obser cator or co Grains; Loca	onfirm the	o digging rest absence of in re Lining, M=Matr	ndicators.)	in the roads	side ditch.	Remarks
Remarks:  SOILS Profile Descr (Type: C=Conce	The soil is	ibe to the depth needed letion, RM=Reduced Matrix, Ca	The wate to docum S=Covered	er table was	evious insp not obser cator or co Grains; Loca	onfirm the	o digging restorms absence of interest in the control of the contr	ndicators.)		side ditch.	Remarks
Remarks:  SOILS Profile Descr (Type: C=Conce	The soil is	ibe to the depth needed letion, RM=Reduced Matrix, Ca	The wate to docum S=Covered	er table was	evious insp not obser cator or co Grains; Loca	onfirm the	o digging restorms absence of interest in the control of the contr	ndicators.)		side ditch.	Remarks
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Remarks:  SOILS Profile Descr (Type: C=Conce	The soil is	ibe to the depth needed letion, RM=Reduced Matrix, Ca	The wate to docum S=Covered	er table was	evious insp not obser cator or co Grains; Loca	onfirm the	o digging restorms absence of interest in the control of the contr	ndicators.)		side ditch.	Remarks
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Remarks:  SOILS Profile Descr (Type: C=Conce	The soil is	ibe to the depth needed letion, RM=Reduced Matrix, Ca	The wate to docum S=Covered	er table was	evious insp not obser cator or co Grains; Loca	onfirm the	o digging restorms absence of interest in the control of the contr	ndicators.)		side ditch.	Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	The soil is	ibe to the depth needed letion, RM=Reduced Matrix  Matrix  Color (Moist)	to docum S=Covered	er table was	evious insponent obserse cator or configurations; Local Moist)	onfirm the otion: PL=Por	o digging restorms absence of interest in the control of the contr	ndicators.)		side ditch.	Remarks
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	The soil is siption (Description, D=Dep	ibe to the depth needed letion, RM=Reduced Matrix  Matrix  Color (Moist)	to docum S=Covered	nent the indi /Coated Sand	evious insponent obserse cator or configurations; Local Moist)	onfirm the otion: PL=Por	absence of in re Lining, M=Matr S Type	ndicators.)	Texture	or Problematic	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	iption (Description, D=Deportration, D=Deportration)  ric Soil Field  A1- Histosol	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Indicators (check h	to docum S=Covered	rer table was nent the indi /Coated Sand Color (  icators are r	evious insponent observator or constructions; Local Moist)  Moist)  not presented ox	onfirm the otion: PL=Por	absence of in re Lining, M=Matr S Type	Location	Texture  Indicators f A9 - 1 cm M	or Problemation	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	iption (Description, D=Deportration, D=Deportration)  ric Soil Field  A1- Histosol A2 - Histic Ep	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Indicators (check hoipedon	to docum S=Covered	rer table was nent the indi /Coated Sand Color (  Color (  icators are r  S5 - Sandy R S6 - Stripped	evious insponent obserse cator or constructions; Local Moist)  Moist)  not presented a construction of presented a	onfirm the otion: PL=Por	absence of in re Lining, M=Matr S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F	or Problemation	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	iption (Description, D=Deportration, D=Deportr	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Indicators (check hoipedon stic	to docum S=Covered	rer table was  nent the indi /Coated Sand  Color (  icators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N	evious insponent observator or constrains; Local Moist)  Moist)  Moist)  Mot presented ox Matrix Mucky Miner	onfirm the stion: PL=Por	absence of in re Lining, M=Matr S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S	or Problemation	c Soils <sup>1</sup> .RR F, G, H)
Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.)	iption (Description, D=Deportration, D=Deportration)  A1- Histosol A2 - Histic Epology A3 - Black Hi A4 - Hydroge	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Indicators (check hoipedon stic n Sulfide	to documed with the second sec	rer table was  nent the indi /Coated Sand  Color (  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	evious insponent observator or constructions; Local Moist)  Moist)  Moist)  Hot present of present of present observator or constructions; Local Moist)  Hot present of present observator	onfirm the stion: PL=Por	absence of in re Lining, M=Matr S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F	For Problemation  Juck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	iption (Description, Depontration, Depontrat	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Indicators (check hopedon stic in Sulfide I Layers (LRR F)	to documed with the second sec	coated Sand Coated Sand Coated Sand Color (Coated Sand Coated Sand Coate	evious insponent observator or constraint co	onfirm the otion: PL=Portion: Mottles % on the otion in t	absence of in re Lining, M=Matr S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduce	For Problemation  Suck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression  Seed Vertic	c Soils <sup>1</sup> .RR F, G, H)
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	iption (Description, D=Deportration, D=Deportr	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Indicators (check hoipedon stic n Sulfide	to documed with the second sec	rer table was  nent the indi /Coated Sand  Color (  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	not obser  cator or cograins; Loca  Moist)  not presented with the company of the	onfirm the tion: PL=Por	absence of in re Lining, M=Matr S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	For Problemation  Juck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression	Soils <sup>1</sup> RR F, G, H)  Ons (LRR H, outisde MLRA 72, 73)
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	iption (Description, D=Depoint A1- Histosol A2 - Histic Epo A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Matrix Color (Moist)  Indicators (check hopedon stic in Sulfide is Layers (LRR F) lock (LRR FGH) led Below Dark Surface park Surface	to docume sere if ind	coated Sand Coated Sand Coated Sand Color (Coated Sand Coated Sand Coate	evious insponent observator or constructions; Local Moist)  Moist)  edox Matrix Mucky Miner Bleyed Matrix I Matrix Park Surface Dark Surface Depressions	onfirm the	absence of ingent in the Lining, M=Matrices  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	For Problemation  Juck (LRR I, J)  Prairie Redox (Lurface (LRR G)  Plains Depression  Plains Depression  Parent Material	Soils <sup>1</sup> RR F, G, H)  Ons (LRR H, outisde MLRA 72, 73)
Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.)	iption (Description, D=Depointration, D=	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Matrix  Color (Moist)  Indicators (check hoppedon stic in Sulfide in Layers (LRR F) lock (LRR FGH) led Below Dark Surface lucky Mineral	to documes=Covered  % ere if ind	coated Sand Coated Sand Coated Sand Color (Coated Sand Coated Sand Coate	evious insponent observator or constructions; Local Moist)  Moist)  edox Matrix Mucky Miner Bleyed Matrix I Matrix Park Surface Dark Surface Depressions	onfirm the	absence of in re Lining, M=Matr S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	Soils <sup>1</sup> RR F, G, H)  Ons (LRR H, outisde MLRA 72, 73)
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	The soil is siption (Description, D=Depintration, D=Depintrati	ibe to the depth needed letion, RM=Reduced Matrix, Color (Moist)  Matrix  Color (Moist)  Indicators (check holipedon stic in Sulfide	to documes=Covered  % ere if ind	coated Sand Coated Sand Coated Sand Color (Coated Sand Coated Sand Coate	evious insponent observator or constructions; Local Moist)  Moist)  edox Matrix Mucky Miner Bleyed Matrix I Matrix Park Surface Dark Surface Depressions	onfirm the	absence of ingent in the Lining, M=Matrices  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	For Problemation  For Problema	c Soils <sup>1</sup> RR F, G, H)  Ons (LRR H, outisde MLRA 72, 73)  Surface
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Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.)	The soil is siption (Description, D=Depintration, D=Depintrati	ibe to the depth needed letion, RM=Reduced Matrix.  Color (Moist)  Indicators (check holipedon stic in Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LRR F, icky Peat or Peat (LRR F)	to documes=Covered  % ere if ind	coated Sand Coated Sand Coated Sand Color (Coated Sand Coated Sand Coate	evious insponent observator or constructions; Local Moist)  Moist)  edox Matrix Mucky Miner Bleyed Matrix I Matrix Park Surface Dark Surface Depressions	onfirm the	absence of ingent in the Lining, M=Matrices  Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	For Problemation  For Problema	c Soils <sup>1</sup> RR F, G, H)  Ons (LRR H, outisde MLRA 72, 73)  Surface
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-156n46w33-a1
					•
<b>VEGETATIO</b>	N (Species identified in all uppercase are	e non-native	e 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.					(742)
8.					Prevalence Index Worksheet
					T 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9.					Total % Cover of: Multiply by:
10.	Total Cavar				OBL spp.
	Total Cover = _	0	Total % Cover of:       Multiply by:         OBL spp.       17       X 1 =       17         FACW spp.       7       X 2 =       14         FAC spp.       0       X 3 =       0         FACU spp.       0       X 4 =       0         UPL spp.       0       X 5 =       0		
					FAC spp. $0 \times 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0   x   4 = 0$
1.					UPL spp. $0   x   5 = 0$
2.					
3.					Total <u>24</u> (A) <u>31</u> (B)
4.					
5.					Prevalence Index = B/A = 1.292
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total Cover =				
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	10	Y	OBL	
2.	Juncus torreyi	5	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Rorippa palustris	5	Υ	OBL	present, unless disturbed or problematic.
4.	Veronica peregrina	2	N	FACW	Definitions of Vegetation Strata:
5.	Epilobium coloratum	2	N	OBL	
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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
					TIEID - All Herbaccous (Horr woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	24			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
<del></del>	Total Cover =	0			
Remarks:			tail Tarroy	'e ruch or	nd bog yellowcress dominate the sample area.
Remarks.	The welland is sparsely vegetated, but harrow	w-ieai call	lali, Torrey	S rusti, ar	d bog yellowcress dominate the sample area.
Additional F	Remarks:				