## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/20/14	
Applicant:										County:	Marshall	
Investigators				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	I20A			_		NWI Classification:						
Landform:	Talf				cal Relief:					Sample Point:	u-157n47w22-c1	
Slope (%):	3 - 7%		titude: 48.40			-96.709		Datum:		1		
		onditions on the site ty	•		ar? (If no, exp			Yes	□ No	Section:		
Are Vegetation			significantly			Are	normal circum	-	esent?	Township:		
Are Vegetation			aturally prol	blematic?			Yes	□ No		Range:	Dir:	
SUMMARY C												
Hydrophytic \	•		No		<del>-</del>				Is Present?			
Wetland Hyd			No				<del></del>			nt Within A W		
Remarks:	•	sample point is locate	ed in a roac	iside area bi	etween an	unimpro	ved road and a	wheat field	d. The site is	s dominated b	by smooth brome and Canada	
	thistle.											
HYDROLOG'	Y											
Wetland Hy	drology Ind	licators (Check all tha	at apply; Mii	nimum of on	e primary	or two se	econdary requir	ed):				
Primary:		,						,	Secondary:	<u>.</u>		
□ A1 - Surface Water					B11 - Salt					B6 - Surface S		
□ A2 - High Water Table					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	<ul><li>□ A3 - Saturation</li><li>□ B1 - Water Marks</li></ul>			☐ C1 - Hydrogen Sulfide Odor						<ul><li>□ B10 - Drainage Patterns</li><li>□ C3 - Oxidized Rhizospheres on Living Roots (tilled)</li></ul>		
	B2 - Sedimer			<ul><li>□ C2 - Dry Season Water Table</li><li>□ C3 - Oxidized Rhizospheres on Living Roots (not till∈</li></ul>							Burrows	
	B3 - Drift Dep	•	_	C4 - Prese					n Visible on Aerial Imagery			
	B4 - Algal Ma			☐ C7 - Thin Muck Surface ☐							hic Position	
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu		
		on Visible on Aerial Image tained Leaves	ery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	b9 - water-S	tained Leaves										
Field Observ	vations											
		V	Danth		(in )							
Surface Water		Yes			_ (in.)			Wetland F	lydrology l	Present? N		
Water Table		Yes	Depth:		_ (in.)						<del></del>	
Saturation Pr	resent?	Yes	Depth:		_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No primary or secondary hydrological indicators were observed.												
Remarks:	No primary				<u>.</u>	pections),	if available:					
	No primary				<u>.</u>	pections),	if available:					
SOILS		or secondary hydrolo	gical indica	tors were ob	served.	,						
SOILS Profile Descri	ption (Descr	or secondary hydrolo	gical indica	tors were ob	eserved.	onfirm the	e absence of in					
SOILS Profile Descri	ption (Descr	or secondary hydrolo	gical indica	tors were ob	eserved.	onfirm the	e absence of in					
SOILS Profile Descri	ption (Descr	or secondary hydrolo ibe to the depth need letion, RM=Reduced Matrix	gical indica	tors were ob	eserved.	onfirm the	e absence of in ore Lining, M=Matri					
SOILS Profile Descri (Type: C=Concer	ption (Descr	or secondary hydrolo ibe to the depth needeletion, RM=Reduced Matrix  Matrix	ed to docun	tors were ob nent the indi	cator or co	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	(x)	Toyture		Romarke	
SOILS Profile Descri	ption (Descr	or secondary hydrolo ibe to the depth need letion, RM=Reduced Matrix	gical indica	tors were ob	cator or co	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks	
SOILS Profile Descri (Type: C=Concer	ption (Descr	or secondary hydrolo ibe to the depth needeletion, RM=Reduced Matrix  Matrix	ed to docun	tors were ob nent the indi	cator or co	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks	
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SOILS Profile Descri (Type: C=Concer  Depth (In.)	ption (Descr	or secondary hydrolo ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)	ed to docun	tors were ob nent the indi	cator or co	Mottle	e absence of in ore Lining, M=Matri es Type	(x)	Texture		Remarks	
SOILS Profile Descri (Type: C=Concer	ption (Descr	or secondary hydrolo ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)	ed to docun	tors were ob nent the indi	cator or co	Mottle	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.)	ption (Descr ntration, D=Dep	or secondary hydrolo ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)	ed to docun	nent the indi //Coated Sand Color (	cator or co Grains; Loca Moist)	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f	for Problematic		
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Description, D=Deportration, D=Deportration)  ic Soil Field  A1- Histosol	or secondary hydrolo  ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check	ed to docun	content the individual Coated Sand Color (  Color (  S5 - Sandy R	cator or co Grains; Loca Moist)  not presen	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Description, D=Deportration, D=Deportration)  Fic Soil Field  A1- Histosol A2 - Histic Ep	or secondary hydrolo  ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check	ed to docun	nent the indi //Coated Sand Color (  icators are r  S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist)  not presen edox Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>	
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi	or secondary hydrolo  ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check	ed to docun	content the individual Coated Sand Color (  Color (  S5 - Sandy R  S6 - Stripped  F1 - Loamy N	cator or co Grains; Loca Moist)  Moist)  not presen edox Matrix Mucky Miner	mottle  Mottle  w tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox ( urface (LRR G)	C Soils <sup>1</sup> (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	or secondary hydrolo  ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (checked on Sulfide	ed to docunts, CS=Covered  %  k here if ind	color (  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or co Grains; Locar Moist)  Moist)  not presen edox Matrix Mucky Minera	mottle  Mottle  w tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sc F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup>	
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	or secondary hydrolo  ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check  Dipedon stic en Sulfide ed Layers (LRR F)	ed to docunts, CS=Covered  %  k here if ind	content the individual Coated Sand Color (  Color (  S5 - Sandy R  S6 - Stripped  F1 - Loamy N	cator or co Grains; Loca Moist)  Moist)  not presen edox Matrix Mucky Miner	mottle  Mottle  // // // // // // // // // // // // /	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	C Soils <sup>1</sup> (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydrolo  ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (checked on Sulfide	gical indica  ed to docun  c, CS=Covered   k here if ind	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted	cator or co Grains; Loca Moist)  Moist)  not presen edox Matrix Mucky Minera Gleyed Matrix Matrix ark Surface	mottle  Mottle  // // // // // // // // // // // // /	e absence of in ore Lining, M=Matri 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	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary hydrolo  ibe to the depth needeletion, RM=Reduced Matrix  Matrix  Color (Moist)  I Indicators (check  Dipedon stic  en Sulfide d Layers (LRR F)  lick (LRR FGH)  ed Below Dark Surface  Dark Surface	gical indica  ed to docun  CS=Covered	color (  Color (  Color (  S5 - Sandy R  S6 - Stripped  F1 - Loamy R  F2 - Loamy C  F3 - Depleted  F6 - Redox D  F7 - Depleted  F8 - Redox D	cator or co Grains; Loca Moist)  Moist)  not presen edox Matrix Mucky Minera Gleyed Matrix ark Surface ark Surface pepressions	mottle  Mottle  %  t):	e absence of incore Lining, M=Matri	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 Parent Material	C Soils <sup>1</sup> (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: u-157n47w22-c1			
VEGETATION CARREST AND ADDRESS OF THE PROPERTY		e non-native	species.)					
Tree Stratum (	(Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.	<u>Opedies Ivame</u>	<u> 70 OOVEI</u>	Dominant	<u>ma.otatas</u>	Dominarios rest Workshoot			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.					(, t)			
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.					(=)			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7.					(* <b>1</b>			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 20			
	Total Cover =	0			FACW spp. $0   x 2 = 0$			
			FACW spp.       0 $x = 2 = 0$ FAC spp.       0 $x = 3 = 0$ FACU spp.       60 $x = 4 = 0$					
Sapling/Shrub \$	Stratum (Plot size: 15 ft. radius)				FACU spp. 60 x 4 = 240			
1.					UPL spp. $\frac{1}{45}$ $x = 5 = \frac{225}{225}$			
2.								
3.					Total 125 (A) 485 (B)			
4.								
5.					Prevalence Index = B/A = 3.880			
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 (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Bromus inermis	45	Y	UPL				
2.	Cirsium arvense	35	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Epilobium coloratum	20	N	OBL	present, unless disturbed or problematic.			
4.	Poa pratensis	15	N	FACU	Definitions of Vegetation Strata:			
5.	Setaria pumila	5	N	FACU				
6	Ambrosia artemisiifolia	5	N	FACU	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.			
13.								
14.					A			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	125	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?N			
5.								
4.	Total Caver	0						
Domorko	Total Cover =		onodo #hi	etle				
Remarks:	The sample point is dominated by smooth br	ome and C	anada tni	sue.				
Additional Remarks:								