WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:								Date:	08/05/14			
Applicant:	· ·										Marshall	
Investigators	<u> </u>					•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	166A NWI Classification:											
Landform:	Dip		40.00		cal Relief:		4040000			Sample Point	w-156n47w1-a1	
Slope (%):	0 - 2%		48.36		Longitude:			Datum:				
		nditions on the site typica			ar? (If no, exp	Ī			□ No	Section:		
Are Vegetation			•	disturbed?		Are	normal circun	•	esent?	Township:	D:	
Are Vegetation			ally prod	olematic?			Yes	□ No		Range:	Dir:	
SUMMARY C			V					Lludria Cai	la Draggart	. Vaa		
Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes Yes					-	Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes						
			Yes	dominated b	v rood oon	ory area	o and pattail or		mpling Poli	it vvitnin A vv	eliano? res	
Remarks: The wetland sample point is shallow marsh dominated by reed canary grass and cattail species.												
HADBOLOGA	V											
HYDROLOG												
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
Primary:	-	Notor			B11 - Salt (Cruct			Secondary:	<u>:</u> B6 - Surface S	Soil Crooks	
✓	□ A1 - Surface Water☑ A2 - High Water Table				B13 - Aqua				Vegetated Concave Surface			
✓	A3 - Saturation				C1 - Hydro		e Odor			B10 - Drainag		
	B1 - Water M				C2 - Dry Se	eason Wa	ter Table			C3 - Oxidized	Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen	•					pheres on Living	Roots (not till	lŧ 📙	C8 - Crayfish		
	B3 - Drift Dep B4 - Algal Ma				C4 - Presei C7 - Thin M				□	C9 - Saturatio D2 - Geomorp	n Visible on Aerial Imagery	
	B5 - Iron Dep				Other (Expl		ice			D5 - FAC-Neu		
		on Visible on Aerial Imagery		٥	Othor (Expi	iairiy					aved Hummocks (LRR F)	
		tained Leaves									,	
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth:		_ (in.)			Wetland F	- Hydrology	Present?	Υ	
Water Table	Present?	Yes ☑	Depth:	3	_ (in.)			victiana	lydrology	i resent:	<u>'</u>	
Saturation Pr	resent?	Yes ☑	Depth:	0	_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: The soil is saturated at the surface, and a high water table is present at three inches.												
		The control of the co										
SOILS	SOILS											
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Profile Descri												
Profile Descri		be to the depth needed to etion, RM=Reduced Matrix, CS=										
Profile Descri		etion, RM=Reduced Matrix, CS=				ion: PL=Po	ore Lining, M=Matr					
Profile Descri (Type: C=Concer		etion, RM=Reduced Matrix, CS= Matrix	-Covered	/Coated Sand	Grains; Locat	ion: PL=Po	ore Lining, M=Matr	ix)	Toyture		Domarka	
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	-Covered		Grains; Locat	ion: PL=Po	ore Lining, M=Matr		Texture		Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-14	htration, D=Depl	Matrix Color (Moist) 2/1	% 100	Coated Sand	Grains; Locat Moist)	Mottle	ore Lining, M=Matr es Type	Location	FSL			
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	-Covered	/Coated Sand	Grains; Locat	ion: PL=Po	ore Lining, M=Matr	ix)		coarse sand frag	Remarks ments throughout	
Profile Descri (Type: C=Concer Depth (In.) 0-14	htration, D=Depl	Matrix Color (Moist) 2/1	% 100	Coated Sand	Grains; Locat Moist)	Mottle	ore Lining, M=Matr es Type	Location	FSL	coarse sand frag		
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Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21	Hue_10YR Hue_5Y	Matrix Color (Moist) 2/1 6/2	% 100 95	Coated Sand	Moist) 5/10GY	Mottle %	ore Lining, M=Matros Type D	Location	FSL	coarse sand frag		
Profile Descri (Type: C=Concer Depth (In.) 0-14	Hue_10YR Hue_5Y	Matrix Color (Moist) 2/1 6/2	% 100 95	Coated Sand	Moist) 5/10GY	Mottle %	ore Lining, M=Matr es Type	Location	FSL SCL		ments throughout	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y	Matrix Color (Moist) 2/1 6/2	% 100 95 re if ind	Coated Sand Color (Gley1	Moist) 5/10GY not present	Mottle %	ore Lining, M=Matros Type D	Location M	FSL SCL	for Problemati	ments throughout	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y ic Soil Field A1- Histosol	Matrix Color (Moist) 2/1 6/2 Indicators (check he	% 100 95 re if ind	Coated Sand Color (Gley1 icators are r	Moist) 5/10GY not present	Mottle %	ore Lining, M=Matros Type D	Location	FSL SCL Indicators 1 A9 - 1 cm M	for Problemati	ments throughout	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y Fic Soil Field A1- Histosol A2 - Histic Ep	Matrix Color (Moist) 2/1 6/2 Indicators (check he	% 100 95 re if ind	Coated Sand Color (Gley1 icators are r S5 - Sandy R S6 - Stripped	Moist) 5/10GY not present	Mottle % 5	ore Lining, M=Matros Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) Prairie Redox	ments throughout c Soils ¹ (LRR F, G, H)	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y ic Soil Field A1- Histosol	Matrix Color (Moist) 2/1 6/2 Indicators (check he	% 100 95 re if ind	Coated Sand Color (Gley1 icators are r	Moist) 5/10GY not present ledox Matrix Mucky Minera	Mottle % 5	ore Lining, M=Matros Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	ments throughout c Soils ¹ (LRR F, G, H)	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	Matrix Color (Moist) 2/1 6/2 Indicators (check he special sp	% 100 95 re if ind	Coated Sand Color (Gley1 Gley1 icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	Moist) 5/10GY not present ledox Matrix Mucky Minera Gleyed Matrix Matrix	Mottle % 5	ore Lining, M=Matros Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	ments throughout c Soils¹ (LRR F, G, H)	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	Matrix Color (Moist) 2/1 6/2 Indicators (check he stice Sulfide Layers (LRR F) ck (LRR FGH)	% 100 95 re if ind	Coated Sand Color (Gley1 icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D	Moist) 5/10GY 5/10GY not present edox Matrix Mucky Minera Gleyed Matrix Matrix Dark Surface	Mottle % 5	ore Lining, M=Matros Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemati Muck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	ments throughout c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	Matrix Color (Moist) 2/1 6/2 Indicators (check he ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 100 95 re if ind	Coated Sand Color (Gley1 S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	Moist) 5/10GY 5/10GY not present edox Matrix Mucky Minera Bleyed Matrix Matrix Matrix Dark Surface	Mottle % 5	ore Lining, M=Matros Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	ments throughout C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	Matrix Color (Moist) 2/1 6/2 Indicators (check he ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	% 100 95 re if ind	Coated Sand Color (Gley1 Gley1 S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 5/10GY 5/10GY not present dedox Matrix Mucky Minera Gleyed Matrix Dark Surface Dark Surface Depressions	Mottle % 5	Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati Muck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	ments throughout C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	Matrix Color (Moist) 2/1 6/2 Indicators (check he ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	% 100 95 re if ind	Coated Sand Color (Gley1 Gley1 S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 5/10GY 5/10GY not present dedox Matrix Mucky Minera Gleyed Matrix Dark Surface Dark Surface Depressions	Mottle % 5	ore Lining, M=Matros Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	ments throughout C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
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Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black His 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	Matrix Color (Moist) 2/1 6/2 Indicators (check he ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR G, H cky Peat or Peat (LRR F)	% 100 95 re if ind	Coated Sand Color (Gley1 Gley1 S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 5/10GY 5/10GY not present dedox Matrix Mucky Minera Gleyed Matrix Dark Surface Dark Surface Depressions	Mottle % 5	Type D	Location	Indicators of PSL SCL Indicators of PSCL A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FF12 - Very Other (Explain Indicators of PSC)	for Problemati fuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	ments throughout C Soils (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: w-156n47w1-a1
					•
VEGETATIO	` ` `	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:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					December 1 to 1 we ded and
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cayor				$OBL spp. \underline{65} \qquad X I = \underline{65}$
	Total Cover = _	0	_		OBL spp. 65
0 1: /0:	Otractions (Districts of AF the resilies)				FACTOR $0 \times 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 \times 4 = 0$
1. 2.					OPL spp. $OPL spp. $ $OPL spp.$
3.					Total 145 (A) 225 (B)
4.					Total 145 (A) 225 (B)
5.					Prevalence Index = B/A = 1.552
6.					Frevalence index = B/A = 1.552
7.					
8.					Hydrophytic Vegetation Indicators:
9.					X Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	10tai 00voi = _		_		Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	75	Υ	FACW	Problem Hydrophytic Vegetation (Explain)
2.	Typha angustifolia	60		OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Carex utriculata	5	<u>_</u> N	OBL	present, unless disturbed or problematic.
4.	Mentha arvensis	<u>5</u>	N	FACW	Definitions of Vegetation Strata:
5.	Wertuna di Verisis			171011	Definitions of Vegetation Strata.
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.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	145			
	10tai 00vei =_	1-10	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	Tatam (Fiot 6i26: 66 ft. Fadias)				
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland sample point is dominated by red		grass and	d cattail sp	ecies.
	The promise definition by for	y	J 1123 30		
Additional R	Remarks:				
Additional	Aemai na.				