WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	•									Date:	08/04/14	_
Applicant:										County:	Marshall	_
Investigators	•			Subregion (MLRA or LRR): MLRA						State:	MN	_
Soil Unit:	I18A			NWI Classification:								
Landform:	Depression				cal Relief:					Sample Poin	t: w-155n45w18-	<u>d1</u>
Slope (%):	0 - 2%		titude: 48.24		Longitude:			Datum				
		nditions on the site ty	•		ar? (If no, exp	1			□ No	Section:		
Are Vegetation		, ,	significantly			Are	e normal circun	•	esent?	Township:		
Are Vegetation			aturally prob	olematic?				□ No		Range:	Dir:	
SUMMARY C												
Hydrophytic Vegetation Present?				Yes				Hydric Soils Present? Yes				
Wetland Hydrology Present?				Yes			Is This Sampling Point Within A Wetland? Yes					
Remarks:	The wetland	d is a seasonally-flood	ded area in	a depressio	n within a	wheat fie	eld. Vegetation	is dominate	ed by dock a	and America	n slough grass.	
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all tha	at apply: Mir	nimum of or	ne primary	or two se	econdary requi	red):				
Primary:	•	icators (Oncor an the	at apply, wiii	iiiiidiii oi oi	ic primary	OI TWO 30	scoridary requi	ica).	Secondary:			
☐ A1 - Surface Water					B11 - Salt	Crust	<u>Secondary</u> ☑			B6 - Surface	Soil Cracks	
☐ A7 - Garrace Water ☐ A2 - High Water Table					B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave	Surface
	<u> </u>				C1 - Hydro					B10 - Drainaç		
	B1 - Water M			□ C2 - Dry Season Water Table □							Rhizospheres on Liv	/ing Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•		 □ C3 - Oxidized Rhizospheres on Living Roots (not tille □ C4 - Presence of Reduced Iron □ C9 - Saturation Visible on Aerial Imagery 								magary.
	B4 - Algal Ma				C7 - Thin N					D2 - Geomor		lagery
	B5 - Iron Dep				Other (Exp				<u></u>	D5 - FAC-Ne		
		on Visible on Aerial Image	ery		` '	,				D7 - Frost-He	eaved Hummocks (LF	RR F)
	B9 - Water-S	tained Leaves										
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Depth:		_ (in.)			Wotland L	Hydrology I	Procent?	Υ	
Water Table	Present?	Yes □	Depth:		(in.)			vvetiana i	iyarology i	rieseiit:		
Saturation Pr	resent?	Yes	Depth:		(in.)							
					- ` ′							
Describe Reco	orded Data (s	stream gauge, monitori	ing well, aeri	al photos, pr		ections).	if available:					
	<u> </u>	stream gauge, monitori		• • •	evious insp			vetland is lo	ocated in a s	light denres	sional area	
Describe Reco	<u> </u>	stream gauge, monitori s indicated by surface		• • •	evious insp			vetland is lo	cated in a s	light depres	sional area.	
Remarks:	<u> </u>			• • •	evious insp			vetland is lo	cated in a s	light depres	sional area.	
Remarks:	Hydrology is	s indicated by surface	e soil crackii	ng and patc	evious insp hes of alga	al mat. In	addition, the w		cated in a s	light depres	sional area.	
Remarks: SOILS Profile Descri	Hydrology is		e soil cracking	ng and patc	revious insponders of algasticator or co	al mat. In	addition, the v	ndicators.)	ocated in a s	light depres	sional area.	
Remarks: SOILS Profile Descri	Hydrology is	ibe to the depth need	e soil cracking	ng and patc	revious insponders of algasticator or co	al mat. In	addition, the v	ndicators.)	cated in a s	light depres	sional area.	
Remarks: SOILS Profile Descri	Hydrology is	ibe to the depth need	e soil cracking	ng and patc	revious insponders of algasticator or co	al mat. In	addition, the very absence of incore Lining, M=Matr	ndicators.)	ocated in a s	light depres	sional area.	
Remarks: SOILS Profile Descri (Type: C=Concer	Hydrology is	ibe to the depth need etion, RM=Reduced Matrix	e soil cracking	ng and patc nent the indi /Coated Sand	revious insp hes of alga icator or co Grains; Loca	onfirm the	e absence of incore Lining, M=Matr	ndicators.)		light depres	sional area. Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	Hydrology is ption (Description, D=Depl	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist)	ed to docum c, CS=Covered	ng and patc	revious insp hes of alga icator or co Grains; Loca	onfirm the	addition, the very absence of incore Lining, M=Matr	ndicators.)	Texture	light depres		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13	Hydrology is ption (Descriptration, D=Depl	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1	ed to documed, CS=Covered	ng and patc nent the indi /Coated Sand	revious insp hes of alga icator or co Grains; Loca	onfirm the	e absence of incore Lining, M=Matr	ndicators.)	Texture SCL	light depres		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15	Hydrology is ption (Description, D=Deplementation, D=Deplementatio	indicated by surface be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/1	ed to documed, CS=Covered %	ng and patc nent the indi /Coated Sand	revious insp hes of alga icator or co Grains; Loca	onfirm the	e absence of incore Lining, M=Matr	ndicators.)	Texture SCL CL	light depres		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15 15-20 NRCS Hydr	Hydrology is ption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	Matrix Color (Moist) 2/1 4/1 5/3 Indicators (check	ed to documed, CS=Covered %	nent the indi /Coated Sand Color (revious inspired icator or configuration of configuration	onfirm the	e absence of incore Lining, M=Matr	Location	Texture SCL CL FS Indicators f A9 - 1 cm M	or Problemat	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15 15-20 NRCS Hydr	Hydrology is ption (Description (Description, D=Deplementation, D=	Matrix Color (Moist) 2/1 4/1 5/3 Indicators (checking Sulfide	ed to documed, CS=Covered %	nent the individual Coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C	mes of algasicator or configurations; Localins; Localins	mat. In onfirm the tion: PL=Po Mottle w t):	e absence of incore Lining, M=Matr	Location	Texture SCL CL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	or Problemat luck (LRR I, J) Prairie Redox urface (LRR G	Remarks ic Soils ¹ (LRR F, G, H)	′2, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15 15-20 NRCS Hydr	Hydrology is ption (Descriptration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth needeletion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/1 5/3 Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface eark Surface	ed to docume, CS=Covered % 100 100 100 k here if ind	coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	mes of algaricator or conficator or conficator or confication or confications; Local Moist) Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface d Dark Surface	mat. In onfirm the tion: PL=Po Mottle % t): al x ace	e absence of inore Lining, M=Matroes Type	Location	Texture SCL CL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	for Problemat luck (LRR I, J) Prairie Redox urface (LRR G Plains Depress sed Vertic Parent Material	Remarks ic Soils ¹ (LRR F, G, H)) ions (LRR H, outside MLRA 7	72, 73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-155n45w18-d1
VEGETATIO		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: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
					Total Number of Dominant Species Across All Strata(D)
5.					- 100 00(/A/D)
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. 15 $X 1 = 15$
	Total Cover =	0			FACW spp. ${40}$ \times $2 = {80}$
	•				FAC spp. $0 \times 3 = 0$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACILED 10 X 4 -
	Stratum (Flot size. 13 it. radius)				1 ACO spp
1.	_				Total % Cover of: Multiply by: OBL spp. 15 X 1 = 15 FACW spp. 40 X 2 = 80 FAC spp. 0 X 3 = 0 FACU spp. 10 X 4 = 40 UPL spp. 0 X 5 = 0
2.					
3.					Total 65 (A) 135 (B)
4.					
5.					Prevalence Index = B/A = 2.077
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Rumex fueginus	30	Y	FACW	
2.	Beckmannia syzigachne	15	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Puccinellia distans	10	N	FACW	present, unless disturbed or problematic.
4.	Artemisia biennis	5	N	FACU	Definitions of Vegetation Strata:
5.	Amaranthus retroflexus	5	N	FACU	
6	7 tindramina retronoxas			17100	Troe - Weeds plants 2 in (7 Care) as seems in diameter at breast
					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					noight (BBH), regardiess of height.
8.				_	But the West state to the DDU second section in
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 =	65			
	Total Cover =	00			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	About 40% of the area is bare soil. Vegetation		nated by do	ock and A	merican slough grass.
rtomanto.	7 Bout 1070 of the area to bare con. Vegetatio		lated by ac	Jok and 7	Horiodit diodgit grace.
Additional F	Remarks:				