WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 08/02/14
Applicant:								County: <u>Marshall</u>		
Investigators	6:	NTT/KRG			Subregio	n (MLRA	or LRR):	MLRA 56		State: MN
Soil Unit:	I18A				_	NWI	Classification :	:		
Landform:	Depression			Lc	cal Relief:	CC				Sample Point: w-155n46w12-e1
Slope (%):	0 - 2%		Latitude: 48.26	2851	Longitude:	-96.506	407	Datum:		
	hydrologic co	nditions on the site	typical for th	s time of year				⊠ Yes	□ No	Section:
Are Vegetati		☑, or Hydrology					normal circun	nstances pre	esent?	Township:
Are Vegetati	•	, , , , , , , , , , , , , , , , , , , ,		0 ,				□ No		Range: Dir:
Are Vegetation □ Soil □, or Hydrology □ aturally problematic? □ Yes □ No Range: Dir: SUMMARY OF FINDINGS □ □ Yes □ No No										
Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes										
	drology Prese		Yes		-					nt Within A Wetland? Yes
Remarks:				cated within	a farmed	sovhean	field and dom			le and Persicaria maculosa.
Itemarks.		1 15 a Seasonally-110			i a laimeu	SUybean		mateu by Ai	isina uman	e and reisicana maculosa.
HYDROLOG	ΪΥ									
Wetland Hy	/drology Ind	i cators (Check all t	hat apply; Mi	nimum of or	ne primary	or two se	econdary requi	red):		
Primary									Secondary:	
	A1 - Surface				B11 - Salt				\checkmark	B6 - Surface Soil Cracks
A2 - High Water TableB13 - Aquatic FaunaB8 - Sparsely Vegetated Concave Surface										
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns
	B1 - Water M				C2 - Dry Se			Deete (pet till		C3 - Oxidized Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		pheres on Living	ROOLS (NOT THE		C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery
	B3 - Dint Dep B4 - Algal Ma				C4 - Flese					D2 - Geomorphic Position
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neutral Test
		n Visible on Aerial Ima	agery	_						D7 - Frost-Heaved Hummocks (LRR F)
	B9 - Water-St									
Field Obser	vations:									
Surface Wat		Yes 🗆	Depth		(in.)					
		Yes D	Depth		_ (in.)			Wetland H	lydrology	Present? Y
	Water Table Present? Yes Depth: (in.) Saturation Present? Yes Depth: 0 (in.)									
			•							
Describe Rec	corded Data (s	stream gauge, monite	oring well, aer	ial photos, pr	evious insp	pections),	if available:			
Remarks:	Soils are sa	turated at the surfa	ce, and crac	king is evide	nt.					
SOILS										
Profile Descr	Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
(Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)										
		Matrix				Mottle	es			
			<u> </u>	Color (Moist)	%	Туре	Location	Texture	Remarks
Depth (In.)		Color (Moist)	%							
Depth (In.)	Hue 10YR	Color (Moist)	% 75		/		Туре		SCI	
0-18	Hue_10YR	2/1	75				Туре		SCL	
	Hue_10YR Hue_10YR	2/1					Туре		SCL S	
0-18		2/1	75						SCL S	
0-18		2/1	75						SCL S	
0-18		2/1	75						SCL S	

NPCS Hydric Soil Field Indicators (check here if indicators are not present).

NRCS Hydri	ic Soil Field Indicators (check here i	f indicators are not present):		
				Indicators for Problematic Soils ¹
	A1- Histosol	S5 - Sandy Redox		A9 - 1 cm Muck (LRR I, J)
	A2 - Histic Epipedon	S6 - Stripped Matrix		A16 - Coast Prairie Redox (LRR F, G, H)
	A3 - Black Histic	F1 - Loamy Mucky Mineral		S7 - Dark Surface (LRR G)
	A4 - Hydrogen Sulfide	F2 - Loamy Gleyed Matrix		F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
	A5 - Stratified Layers (LRR F)	F3 - Depleted Matrix		F18 - Reduced Vertic
	A9 - 1 cm Muck (LRR FGH)	□ F6 - Redox Dark Surface		TF2 - Red Parent Material
	A11 - Depleted Below Dark Surface	F7 - Depleted Dark Surface		TF12 - Very Shallow Dark Surface
	A12 - Thick Dark Surface	F8 - Redox Depressions		Other (Explain in Remarks)
	□ S1 - Sandy Mucky Mineral □ F16 - High Plains Depress		RA 72, 73 of LRR H)	
	S2 - 2.5 cm Mucky Peat or Peat (LRR G, H)			
	S3 - 5 cm Mucky Peat or Peat (LRR F)			¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	S4 - Sandy Gleyed Matrix			unless disturbed or problematic.
Restrictive Layer	Туре:	Depth:	Hydric Soil Present?	<u> Y </u>
Remarks:	Soils are disturbed due to recent tillage.	Light-colored sand is mixed throug	hout the entire soil profile.	
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Project/Site:	L3R				Sample Point: w-155n46w12-e1			
		e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet			
1.		76 COVEL	Dominant	<u>mu.Status</u>				
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% (A/B)			
7.								
8.	,				Prevalence Index Worksheet			
9.					Total % Cover of: <u>Multiply by:</u>			
10.					OBL spp. $11 \times 1 = 11$			
	Total Cover =	0			FACW spp. 15 $x 2 = 30$			
					OBL spp.11X1 =11FACW spp.15X2 =30FAC spp.0X3 =0FACU spp.0X4 =0			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$			
1.					UPL spp. 0 $X 5 = 0$			
2.								
3.					Total <u>26</u> (A) <u>41</u> (B)			
4.								
5.					Prevalence Index = B/A = <u>1.577</u>			
6.								
7.					Ludrenbytic Verstation Indicators.			
8.					Hydrophytic Vegetation Indicators:			
<u>9.</u> 10.					Rapid Test for Hydrophytic Vegetation			
10.	 Total Cover =	0			$X Dominance Test is > 50\%$ $X Prevalence Index is \le 3.0 *$			
		0	_					
Harb Stratum (Plataiza: Eft radius)				Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius) Alisma triviale	10	V	OBL	Problem Hydrophytic Vegetation (Explain) *			
2.	Persicaria maculosa	10	· · · · · · · · · · · · · · · · · · ·	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Rumex stenophyllus	5	N	FACW	present, unless disturbed or problematic.			
4.	Typha angustifolia	1	N	OBL	Definitions of Vegetation Strata:			
5.								
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 = _	26						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.	<u></u>							
4.	Total Cover =	0						
Remarks:	Vegetation is very sparse; the majority of the		covered	with hare (
Nomarka.	vegetation is very sparse, the majority of the	wenanu is						
Additional F	Pomarke:							