## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										06/25/14					
Applicant:											Kittson				
Investigators: BCS/BEH				Subregion (MLRA or LRR): MLRA 56							MN				
Soil Unit: 1248A				NWI Classification: PFO											
Landform:	Depression				ocal Relief:					Sample Point:	w-160n50w9-b1				
Slope (%):	0 - 2%		Latitude: 48.		Longitude:	-97.107	9667	Datum							
		onditions on the site			ar? (If no, exp	plain in rema	arks)	⊡Yes	D No	Section:					
							normal circumstances present?		resent?	Township:					
Are Vegetation		I 📮 or Hydrology	☐turally p	problematic?			Yes	□No		Range:	Dir:				
SUMMARY OF FINDINGS															
Hydrophytic Y	•		Yes		_				ils Present?						
				Yes			Is This Sampling Poin								
Remarks:							Im. The site is	adjacent to	the Red Riv	ver and down	slope from a tilled agricultur	al			
		The area encompa	asses seve	ral mapped N	/VI wetland	S.									
HYDROLOG	Y														
Wetland Hy	drology Ind	icators (Check all	that apply;	Minimum of o	ne primary	or two se	econdary requi	red):							
Primary	<u>:</u>							,	Secondary:						
	A1 - Surface				B11 - Salt					B6 - Surface S					
✓	A2 - High Wa A3 - Saturatio														
	B1 - Water M			C1 - Hydrogen Sulfide Odor   Image: C2 - Dry Season Water Table     C3 - Oxidized Rhizospheres on Living Roots (not till						C3 - Oxidized Rhizospheres on Living Roots (tilled)					
	B2 - Sedimen														
	B3 - Drift Dep				C4 - Prese	nce of Re	duced Iron				n Visible on Aerial Imagery				
	B4 - Algal Ma B5 - Iron Dep						ace		<b>√</b>						
		on Visible on Aerial Im	agery	L	Other (Exp	iaiii)					aved Hummocks (LRR F)				
		tained Leaves	ugo.y						_	27 110001100					
Field Obser	vations:														
Surface Wat	er Present?	Yes 🛛	Dep	oth:	(in.)			Matland I	lucina la curi	Dues a m42	V				
Water Table	Present?	Yes 🗹	Dep	oth: 0	(in.)			wetland	Hydrology	Present?	Y				
Saturation P	resent?	Yes 🗹	Dep	oth: 0	(in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:															
Describe Rec	orded Data (	stream gauge moni	itoring well a		_ ` `	ections)	if available:								
-				aerial photos, p	revious insp	ections),	if available:								
Describe Reco Remarks:		stream gauge, monite and saturation are		aerial photos, p	revious insp	ections),	if available:								
Remarks:				aerial photos, p	revious insp	pections),	if available:								
Remarks: SOILS	Water table		e present at	aerial photos, p the soil surfa	revious insp ce.			ndicators.)							
Remarks: SOILS Profile Descri	Water table	and saturation are	e present at	aerial photos, p the soil surfa	revious insp ce.	onfirm th	e absence of ir								
Remarks: SOILS Profile Descri	Water table	and saturation are ibe to the depth ne etion, RM=Reduced Ma	e present at	aerial photos, p the soil surfa	revious insp ce.	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr								
Remarks: SOILS Profile Descri (Type: C=Concer	Water table	and saturation are ibe to the depth ne etion, RM=Reduced Ma Matrix	e present at eeded to doo atrix, CS=Cove	aerial photos, p the soil surfa cument the inc	revious insp ce. icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr								
Remarks: SOILS Profile Descri	Water table	and saturation are ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	e present at eeded to doo atrix, CS=Cove	the soil surface cument the incorred/Coated Sance	revious insp ce.	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr		Texture		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer	Water table	and saturation are ibe to the depth ne etion, RM=Reduced Ma Matrix	e present at eeded to doo atrix, CS=Cove	the soil surface cument the incorred/Coated Sance	revious insp ce. icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	rix)	С		Remarks				
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Remarks:       SOILS       Profile Descri       (Type: C=Concer       Depth (In.)       0-4       4-10       10-20       10-20       NRCS Hydr       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □	Water table iption (Descr ntration, D=Depl Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	and saturation are ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2.5/1 3/1 4/1 2.5/1 Indicators (ch stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (LRF leyed Matrix	e present at reded to door atrix, CS=Cove 9 10 10 10 10 10 10 10 10 10 10 10 10 10	aerial photos, p the soil surfa- cument the inc red/Coated Sanc 6 Color 00 00 00 00 00 00 00 00 00 00 00 00 00	Alpha Construction Alpha Constructio	Mottle % 15 10 t):	e absence of ir ore Lining, M=Mat es Type C D D RA 72, 73 of LRF	Location M M M	C C C C A9 - 1 cm M A9 - 1 cm M A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressia ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<u>с Soils<sup>1</sup></u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface	isent,			
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-160n50w9-b1
VECETATIO					
VEGETATIO Tree Stratum	N (Species identified in all uppercase are (Plot size: 30 ft. radius)	e non-native	species.)		
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Ulmus americana	50	Y	FAC	
2.	Fraxinus pennsylvanica	15	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)
3.	Quercus macrocarpa	5	N	FACU	
<u>4.</u> 5.					Total Number of Dominant Species Across All Strata: 5 (B)
5. 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.					$OBL spp. \qquad 0 \qquad x \ 1 = 0$
	Total Cover =	70			FACW spp. 5 x 2 = $10$
					FAC spp. 82 X 3 = 246
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20
1.	Ulmus americana	15	Y	FAC	UPL spp. 0 x 5 = 0
2.					
3.					Total <u>92</u> (A) <u>276</u> (B)
4.					
5. 6.	<u></u>				Prevalence Index = B/A = <u>3.000</u>
6. 7.	<u> </u>				
8.	_				Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	15			X Prevalence Index is $\leq 3.0^*$
	-		_		Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex tenera	5	Y	FACW	
2.	Elymus virginicus	2	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					Terre
6 7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7. 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 =	7			
	ratum (Plot size: 30 ft. radius)				
1. 2.	I				
3.	<u> </u>				Hydrophytic Vegetation Present? Y
5.					
4.	,				
	Total Cover =	0			
Remarks:			elm in the	tree stratu	im; the understory is very sparsely vegetated, but quill sedge and Virginia wild rye
	are present.				
Additional F	Remarks:				