WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/24/14	
Applicant:										County:	Kittson		
	vestigators: EAB/RAJ			Subregion (MLRA or LRR): MLRA 56							State:	MN	
Soil Unit:	I132A		l .				•	Classification:			1		
Landform:	Depression				Lo	cal Relief:		· Olassilloation.			Sample Boint:	w-159n48w31-a1	
	0 - 2%		1 00 1 4	10 5 40				400	Deture		Sample Foliti.	W-1331140W31-a1	
Slope (%):			Latitude: 4			Longitude:			Datum:				
		onditions on the sit				IF (If no, exp			□Yes	☑ No	Section:		
Are Vegetati		I ☐ or Hydrology			disturbed?		Are	e normal circun		esent?	Township:		
Are Vegetati	on 📮 Soi	I ☐ or Hydrology	□aturally	y prob	lematic?			Yes	□No		Range:	Dir:	
SUMMARY (OF FINDING	S											
Hydrophytic			V	⁄es					Hydric Soil	s Present?	Yes		
Wetland Hyd			_	es es								etland? Yes	
								and the land of the same			t Within A W		
Remarks:									normai wate	er ieveis at	tne time of su	rvey. Pipelines and other utilit	
		the wetland. Hydr	opnytic gr	ramino	oids domina	ite the con	nmunity.						
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	I that annly	v: Mini	imum of on	o primary	or two co	ocondary roqui	rod):				
		icators (Check all	ı ınaı appı	y, iviii i	illiulli oi oli	e primary	OI IWO SE	econdary requi	reu).	0			
Primary		Matar				D11 Calt (Crust			Secondary:		oil Crooks	
☑ A1 - Surface Water☐ A2 - High Water Table						B11 - Salt (B6 - Surface Soil Cracks		
						B13 - Aqua					B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns		
✓	A3 - Saturation B1 - Water M					C1 - Hydro						e Patterns Rhizospheres on Living Roots (tilled	
	B2 - Sedimer							spheres on Living	Dooto (not till				
	B3 - Drift Dep					C4 - Prese			Roots (not till		C8 - Crayfish E	n Visible on Aerial Imagery	
	B4 - Algal Ma				_	C7 - Thin M					D2 - Geomorp		
1 5	B5 - Iron Dep					Other (Expl		ace			D5 - FAC-Neut		
		on Visible on Aerial Im	nagon/			Other (Exp	iaiii)					aved Hummocks (LRR F)	
1		tained Leaves	lagery							_	D1 - 11031-1166	ived Hammocks (LIXIX I)	
	Do - Water-o	tairieu Leaves											
Field Obser	vations:												
Surface Wat	ter Present?	Yes ☑	С	Depth:	36	(in.)						.,	
Water Table	Present?	Yes \Box	Г	· Depth:		(in.)			Wetland H	iyarology i	Present?	Y	
Saturation P		Yes 🗹			0								
Saturation	resent:	res 😐	L	Depth:	U	(in.)							
Describe Rec	orded Data (stream gauge, moni	itoring well	I, aeria	l photos, pre	evious insp	ections),	if available:					
									nknown sind	ce soils cou	ıld not he sam	onled within the roadside ditch	
Describe Rec Remarks:									nknown sind	ce soils cou	uld not be san	npled within the roadside ditch	
Remarks:									nknown sind	ce soils cou	uld not be san	npled within the roadside ditch	
Remarks:	Water level	s are higher than r	normal du	e to re	ecent heavy	rains. The	e water t	able depth is u		ce soils cou	ıld not be san	npled within the roadside ditch	
Remarks: SOILS Profile Descr	Water level	s are higher than r	normal du	e to re	ecent heavy	rains. The	e water to	able depth is u	ndicators.)	ce soils cou	ıld not be san	npled within the roadside ditch	
Remarks: SOILS Profile Descr	Water level	s are higher than r	normal du	e to re	ecent heavy	rains. The	e water to	able depth is u	ndicators.)	ce soils cou	uld not be san	npled within the roadside ditch	
Remarks: SOILS Profile Descr	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M	normal du	e to re	ecent heavy	rains. The	e water to	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)	ce soils cou	uld not be san	npled within the roadside ditch	
Remarks: SOILS Profile Descr	Water level	s are higher than r	normal du	e to re	ecent heavy	rains. The	e water to	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)	ce soils cou	uld not be san	npled within the roadside ditch	
Remarks: SOILS Profile Descr	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M	normal du	e to re	ecent heavy	rains. The	e water to	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)	ce soils cou	uld not be san	npled within the roadside ditch	
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix	normal du	docum	ent the indicoated Sand (rains. The	onfirm the	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)		uld not be san		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix	normal du	docum	ent the indicoated Sand (rains. The	e water to onfirm the tion: PL=Pe	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)		uld not be sam		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix	normal du	docum	ent the indicoated Sand (rains. The	e water to onfirm the tion: PL=Pe	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)		uld not be san		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix	normal du	docum	ent the indicoated Sand (rains. The	e water to onfirm the tion: PL=Pe	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)		uld not be san		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix	normal du	docum	ent the indicoated Sand (rains. The	e water to onfirm the tion: PL=Pe	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)		uld not be san		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix	normal du	docum	ent the indicoated Sand (rains. The	e water to onfirm the tion: PL=Pe	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)		uld not be san		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix	normal du	docum	ent the indicoated Sand (rains. The	e water to onfirm the tion: PL=Pe	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)		uld not be san		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	normal du	documovered/0	ent the indi Coated Sand (Color (I	cator or cc Grains; Locat	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	ndicators.)		uld not be san		
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	normal du	documovered/0	ent the indicoated Sand (cator or cc Grains; Locat	e water t	able depth is u e absence of ir ore Lining, M=Matr	ndicators.)	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	normal du	documovered/0	ent the indi Coated Sand (Color (I	cator or cc Grains; Locat	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	ndicators.)	Texture	ald not be san	Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	Water level	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	normal du	documovered/0	ent the indi Coated Sand (Color (I	cator or co Grains; Locat Moist)	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	Water level iption (Description, D=Depl	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch	normal du	documovered/0	ent the indicoated Sand (Color (I	cator or co Grains; Locat Moist)	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Texture Indicators 1 A9 - 1 cm M	for Problematic	Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	water level iption (Description, D=Depl	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch	normal du	documovered/0	ent the indicoated Sand (Color (I	cator or co Grains; Locat Moist) Moist) not present	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Texture Indicators 1 A9 - 1 cm M A16 - Cost F	for Problematic	Remarks c. Soils ¹ RR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce	water level iption (Description, D=Depi iption (Description) iption (Des	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch	normal du	docum- docum- overed/0 % if indic	ent the indicoated Sand (Coated	cator or cc Grains; Locat Moist) Moist) Mot present	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G)	Remarks Soils¹ RR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Depi iption, D=Depi iption, D=Depi iric Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch ipedon stic n Sulfide	normal du	documovered/0 % if indic	ent the indicoated Sand (Color (I cators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Locat Moist) Mot present edox Matrix Mucky Minera	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G)	Remarks c. Soils ¹ RR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Deplication, D=Deplication, D=Deplication) ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratified	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (chairpedon stic n Sulfide Layers (LRR F)	normal du	docummovered/t/ % if indid	ent the indicoated Sand (Color (I	cator or co Grains; Locat Moist) not present	e water t	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S7 F16 - High F F18 - Reduc	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G)	Remarks Soils¹ RR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch ipedon stic n Sulfide	normal du	docummovered/c/	ent the indicoated Sand (Color (I	cator or co Grains; Locat Moist) Moist) not present edox Matrix lucky Minera elleyed Matrix ark Surface	months with the second	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression	Remarks 2 Soils¹ RR F, G, H) Ons (LRR H, outlade MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	s are higher than r ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch iipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) dd Below Dark Surface	normal du	docummovered/to	ent the indicoated Sand (Color (I Coators are r S5 - Sandy R S6 - Stripped 11 - Loamy N F2 - Loamy S F3 - Depleted 6 - Redox D	cator or co Grains; Locat Moist) Moist) Mot present edox Matrix lucky Minera lieved Matrix Matrix ark Surface Dark Surface	months with the second	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic Parent Material	Remarks 2 Soils¹ RR F, G, H) Ons (LRR H, outlade MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, Depoint along the control of t	ibe to the depth ne etion, RM=Reduced M. Matrix Color (Moist) Indicators (chairpedon stic in Sulfide IL Layers (LRR FGH) and Below Dark Surface ark Surface	normal du	docummovered/N	ent the indicoated Sand (Color (ICC) Color	cator or co Grains; Locat Moist) Moist) edox Matrix lucky Minera bleyed Matrix Matrix Matrix Auface Dark Surface pressions	monfirm the confirm the confirmation of the confirmation confirmat	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic "arent Material Shallow Dark S	Remarks 2 Soils¹ RR F, G, H) Ons (LRR H, outlade MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2- Histic Ep A3- Black Hi A4- Hydroge A5- Stratifiec A9-1 cm Mu A11 - Deplete A12- Thick E S1- Sandy M	ibe to the depth ne etion, RM=Reduced M. Matrix Color (Moist) Indicators (chairpedon stic in Sulfide IL Layers (LRR FGH) and Below Dark Surface ark Surface	eeded to d latrix, CS=Co	if indid	ent the indicoated Sand (Color (ICC) Color	cator or co Grains; Locat Moist) Moist) edox Matrix lucky Minera bleyed Matrix Matrix Matrix Auface Dark Surface pressions	monfirm the confirm the confirmation of the confirmation confirmat	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic "arent Material Shallow Dark S	Remarks 2 Soils¹ RR F, G, H) Ons (LRR H, outlade MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description (Description) (Descripti	s are higher than relief to the depth neetion, RM=Reduced Mines and the strict of the depth neetion, RM=Reduced Mines and the strict of the st	eeded to delatrix, CS=Co	if indid	ent the indicoated Sand (Color (ICC) Color	cator or co Grains; Locat Moist) Moist) edox Matrix lucky Minera bleyed Matrix Matrix Matrix Auface Dark Surface pressions	monfirm the confirm the confirmation of the confirmation confirmat	able depth is u e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks)	Remarks 2 Soils¹ RR F, G, H) Ons (LRR H, outlade MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n48w31-a1
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
	(Plot size: 30 ft. radius)		· /		
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					Number of Borninant openies that are OBE, 1 Now, 011 No(A)
					T. (D.) (D.) (D.)
4.					Total Number of Dominant Species Across All Strata: 2 (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. 0 x 1 = 0
10.	_l Total Cover =	0			
	Total Covel –	U	_		FACW spp. 40
					FAC spp. 0 x 3 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10
1.					UPL spp. 10
2.				_	
3.					Total 60 (A) 170 (B)
4.					`` <i>`</i>
5.					Prevalence Index = B/A = 2.833
					T TOVARIOTION THUCK - DITY - 2.000
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	•		_		Morphological Adaptations (Explain) *
Horb Stratum /	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Alopecurus arundinaceus	20	Y	FACW	Problem Hydrophytic Vegetation (Explain)
					* Indicators of hydric soil and watland hydrology must be
2.	Juncus arcticus	20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Poa pratensis	10	N	FACU	
4.	Bromus inermis	10	N	UPL	Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
				_	Oupling/Official Control of the Cont
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 =	60			
	Total Cover –	00	_		
	(5) 4 (6) 6 (7)				
	ratum (Plot size: 30 ft. radius)				
1.					
2.			-		
3.			-		Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland was mostly submerged at the tir		ev but for	aturae cros	ening meadow foytail and arctic rush
i verrial No.	The welland was mostly submerged at the th	ne or sulv	cy, but lea	atures tret	Ching meadow toxtall and arctic rush.
Additional F	Remarks:				
	-				
l					
				_	