WETLAND DETERMINATION DATA FORM Great Plains Region

Applicant:	Er	R hbridge									Date: County:	09/25/14 Pennington
Investigators		RK/OTG				_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit: Landform:	I16F Shoulder				l c	ocal Relief:		I Classification:			Sample Point	u-153n43w29-l1
Slope (%):					48.03738033 Longitude: -96.2027			7928333	Datum:			
,	hydrologic condi	itions on the sit	te typical t	for this	time of ye	-			☑ Yes	□ No	Section:	
Are Vegetati		, or Hydrology	•	•			Are	e normal circun		esent?	Township:	
Are Vegetati		, or Hydrology	n ⊐atural	ly prob	lematic?			⊠ Yes	□ No		Range:	Dir:
	OF FINDINGS	opt2		Ne					Uvdria Sai	la Dragont?	No	
	Vegetation Pres drology Present?		-	No No		_				ls Present?	nt Within A W	etland? No
Remarks:	The upland sa				n, <mark>upslope</mark>	from a har	dwood s	wamp.		nping rom		
HYDROLOG	Y											
Wetland Hy Primary	/drology Indica	·	ll that app	oly; Min	imum of or	ne primary B11 - Salt		econdary requi	red):	Secondary:	B6 - Surface S	Soil Cracks
						B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation					C1 - Hydro					B10 - Drainage	e Patterns
	B1 - Water Marks B2 - Sediment De					C2 - Dry S C3 - Oxidiz		iter Table spheres on Living	Roots (not till	□ € □	C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B3 - Drift Deposit	•				C4 - Prese					2	n Visible on Aerial Imagery
	B4 - Algal Mat or					C7 - Thin N		ace			D2 - Geomorp	
	B5 - Iron Deposit B7 - Inundation V		magery			Other (Exp	olain)				D5 - FAC-Neu D7 - Frost-Hea	
 B7 - Inundation Visible on Aerial Imagery B9 - Water-Stained Leaves 												
Field Observations:												
Surface Wat	ter Present? Ye	s 🗆		Depth:		(in.)			Wetland H	lydrology	Present?	Ν
Water Table				Depth:		_ (in.)			mettana	iyarology		
Saturation P	resent? Ye	s 🗆		Depth:		_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	```	<u> </u>	<u> </u>		• •		pections),	if available:				
Remarks:	No primary or	<u> </u>	<u> </u>		• •		pections),	if available:				
Remarks: SOILS	No primary or	secondary hyd	Irological i	indicate	ors were ol	bserved.			dicators.)			
Remarks: SOILS Profile Descr	```	secondary hyd	Irological i	indicate	ors were of ent the ind	bserved.	onfirm the	e absence of in				
Remarks: SOILS Profile Descr	No primary or s	secondary hyd to the depth ne	Irological i	indicate	ors were of ent the ind	bserved.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descr (Type: C=Conce	No primary or s	to the depth ne n, RM=Reduced M Matrix	Irological i	indicato docum Covered/0	ors were of ent the ind Coated Sand	icator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	Toyturo		Pomarka
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	No primary or s	to the depth ne n, RM=Reduced M Matrix Dior (Moist)	Irological i	indicate docum Covered/0 %	ors were of ent the ind Coated Sand	bserved.	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12	No primary or s iption (Describe intration, D=Depletion Co Hue_10YR	to the depth ne n, RM=Reduced M Matrix blor (Moist) 2/1	Irological i	docum Covered/0 % 100	ors were of ent the ind Coated Sand	icator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	Texture CL C		Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12 12-18 NRCS Hydr	No primary or s iption (Describe intration, D=Depletion Co Hue_10YR Hue_5Y Hue_5Y	to the depth ne n, RM=Reduced M Matrix blor (Moist) 2/1 5/2 dicators (ch	eeded to o	docum Covered/0 % 100 100 e if indic	ent the ind Coated Sand Color ( Color ( cators are S5 - Sandy F	icator or co Grains; Loca (Moist) (Moist) not presen	Donfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr es Type	Location	CL C Indicators f A9 - 1 cm M	luck (LRR I, J)	<u>c Soils¹</u>
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12 12-18 NRCS Hydr	No primary or s iption (Describe intration, D=Depletion Co Hue_10YR Hue_5Y Hue_5Y intro Soil Field International A1- Histosol A2 - Histic Epipee	to the depth ne n, RM=Reduced M Matrix blor (Moist) 2/1 5/2 dicators (ch	eeded to o	docum Covered/( % 100 100 e if indic	ors were of ent the ind Coated Sand Color ( Color ( cators are S5 - Sandy F S6 - Stripped	icator or co Grains; Loca (Moist) (Moist) not presen	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	CL C Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12 12-18 NRCS Hydr	No primary or s iption (Describe intration, D=Depletion Co Hue_10YR Hue_5Y Hue_5Y intro Soil Field Inter- A1- Histosol A2 - Histic Epipeo A3 - Black Histic	to the depth ne n, RM=Reduced M Matrix blor (Moist) 2/1 5/2 dicators (ch	eeded to o	docum Covered/0 % 100 100 e if indio	ent the ind Coated Sand Color ( Color ( Color ( Color ( Color ( S5 - Sandy F S6 - Stripped F1 - Loamy I	icator or co Grains; Loca (Moist) (Moist) not presen Redox d Matrix Mucky Miner	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	ix)	CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox ( urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12 12-18 NRCS Hydr	No primary or s iption (Describe intration, D=Depletion Co Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Epipeo A3 - Black Histic A4 - Hydrogen So A5 - Stratified Lay	to the depth ne n, RM=Reduced M Matrix blor (Moist) 2/1 5/2 dicators (ch don ulfide yers (LRR F)	eeded to o	docum Covered/ % 100 100 e if indic	cators are S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy f F3 - Deplete	icator or co Grains; Loca (Moist) (Moist) not presen Redox d Matrix Mucky Miner Gleyed Matri d Matrix	onfirm the tion: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	ix)	CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary or s iption (Describe intration, D=Depletion Co Hue_10YR Hue_5Y Hue_5Y A1- Histosol A1- Histosol A2 - Histic Epipeo A3 - Black Histic A4 - Hydrogen St A5 - Stratified Lay A9 - 1 cm Muck (	to the depth ne n, RM=Reduced M Matrix blor (Moist) 2/1 5/2 dicators (ch don ulfide yers (LRR F) (LRR FGH)	eeded to o Aatrix, CS=C	docum Covered/0 % 100 100 a if indic	ors were of ent the ind Coated Sand Color ( Color ( Color ( Color ( S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy ( F3 - Deplete F3 - Redox [	icator or co Grains; Loca (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moist) (Moi	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	ix)	CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material	<u>c Soils¹</u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n43w29-I1			
VEGETATIO		re non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)				Deminence Test Werkehest			
1	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u> Y	Ind.Status	Dominance Test Worksheet			
<u> </u>	Populus tremuloides       Tilia americana	50	Y Y	FAC	Number of Deminent Species that are OPL EACING or EAC: $1 (\Lambda)$			
3.		30	 N	FACU	Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A)			
<u> </u>	Fraxinus pennsylvanica	10	IN	FAC	Total Number of Dominant Species Across All Strata: 4 (B)			
5.					Total Number of Dominant Species Across All Strata4 (D)			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>25.0%</b> (A/B)			
7.					(AD)			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					$OBL spp. \qquad 0 \qquad X \ 1 = \qquad 0$			
	 Total Cover =	90			FACW spp. 0 $x 2 = 0$			
					FACW spp.0x2 =0FAC spp.60x3 =180			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $45$ X 4 = $180$			
1.	Rhamnus cathartica	15	Y	FACU	FACU spp.       45       x       4 =       180         UPL spp.       80       x       5 =       400			
2.								
3.					Total 185 (A) 760 (B)			
4.								
5.					Prevalence Index = B/A = <b>4.108</b>			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	15			Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Carex pensylvanica	80	Y	NI				
2.					* Indicators of hydric soil and wetland hydrology must be			
3.					present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5.								
6					<b>Tree -</b> 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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.	<u> </u>				Mandu Vince All woody vince regardloss of height			
15.		00			Woody Vines - All woody vines, regardless of height.			
	Total Cover =	80	_					
Woody Vine St	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? N			
5.								
4.		0						
Damarlar	Total Cover =			o o ol 1- o	wood. The about lower is predering on the Experiment build the set. The supervisition of the set			
Remarks: The upland sample point canopy is dominated by quaking aspen and basswood. The shrub layer is predominantly European buckthorn. The ground layer is dominated by Pennsylvania sedge.								
Additional F	Remarks:							