## WETLAND DETERMINATION DATA FORM Great Plains Region

	La	3R								Date:	09/29/14
Project/Site: Applicant:	Er								County:	Pennington	
Investigators			Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	155A		•		_ 0	•	Classification:	PEMA		1	
Landform:	Depression Local Relief: CC									Sample Point	: w-153n44w2-d1
Slope (%):	0 - 2%	Latit	ude: <mark>48.09</mark>	3637	Longitude:	-96.272	331	Datum:		]	
Are climatic/h	hydrologic cond	itions on the site typ	oical for this	s time of ye	ar? (If no, exp	olain in rema	arks)	☑ Yes	□ No	Section:	
Are Vegetation	on 🗆 Soil 🗆	⊐, or Hydrology ⊏sig	gnificantly	disturbed?		Are	e normal circun	nstances pro	esent?	Township:	
Are Vegetation	on 🗆 Soil 🗆	, or Hydrology	turally prol	blematic?			Ves	□ No		Range:	Dir:
SUMMARY C	OF FINDINGS										
Hydrophytic	Vegetation Pres	sent?	Yes		_			Hydric Soi	Is Present?	Yes	
Wetland Hyd	Irology Present?	?	Yes					Is This Sa	mpling Poin	it Within A W	/etland? Yes
Remarks:	A Willow-Carr	dominated by pussy	y willow, re	ed osier dog	wood, reed	d canary	grass, and oth	er species.	All parame	ters of wetla	nd conditions are present.
HYDROLOG	Y										
Wetland Hv	drology Indica	tors (Check all that	apply: Mir	nimum of or	ne primarv	or two se	econdary requi	ed):			
Primary:	•••				io prinary	01 110 01	been daily requi	00)	Secondary:		
										B6 - Surface S	Soil Cracks
	A2 - High Water	Table			B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation B1 - Water Mark	0			C1 - Hydro					B10 - Drainag	
	B2 - Sediment D				C2 - Dry Se		pheres on Living	Roots (not till	le D	C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (tilled)
	B3 - Drift Deposi	•			C4 - Prese					•	n Visible on Aerial Imagery
	B4 - Algal Mat or				C7 - Thin N	/luck Surfa	ace			D2 - Geomorp	<b>U</b> .
	B5 - Iron Deposit				Other (Exp	lain)				D5 - FAC-Neu	
		/isible on Aerial Imager	у							D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-Stain	ed Leaves									
Field Observ		_			( $)$						
	er Present? Ye		Depth:		_ (in.)			Wetland F	lydrology l	Present?	Υ
Water Table			Depth:		_ (in.)						<u> </u>
Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: Indicators of wetland hydrology are present.											
SOILS											
						<b>C</b>					
Profile Descri		to the depth neede									
Profile Descri		to the depth neede n, RM=Reduced Matrix,									
Profile Descri		n, RM=Reduced Matrix,				tion: PL=Po	ore Lining, M=Matr				
Profile Descri (Type: C=Concer	ntration, D=Depletio	n, RM=Reduced Matrix, Matrix	CS=Covered	/Coated Sand	Grains; Locat	tion: PL=Po Mottle	ore Lining, M=Matr	ix)	Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depletio	n, RM=Reduced Matrix, Matrix olor (Moist)	CS=Covered		Grains; Locat	tion: PL=Po	ore Lining, M=Matr		Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-10	htration, D=Depletio	n, RM=Reduced Matrix, Matrix olor (Moist) 2/1	CS=Covered % 100	/Coated Sand	Grains; Locat	tion: PL=Po Mottle	ore Lining, M=Matr	ix)	М		Remarks
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Profile Descri (Type: C=Concer Depth (In.) 0-10	htration, D=Depletio	n, RM=Reduced Matrix, Matrix olor (Moist) 2/1	CS=Covered % 100	/Coated Sand	Grains; Locat	tion: PL=Po Mottle	ore Lining, M=Matr	ix)	М		Remarks
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Profile Descri (Type: C=Concer Depth (In.) 0-10	htration, D=Depletio	n, RM=Reduced Matrix, Matrix olor (Moist) 2/1	CS=Covered % 100	/Coated Sand	Grains; Locat	tion: PL=Po Mottle	ore Lining, M=Matr	ix)	М		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	Hue_10YR Hue_2.5Y	n, RM=Reduced Matrix, Matrix olor (Moist) 2/1 7/1	CS=Covered % 100 100	/Coated Sand	Grains; Locat Moist)	tion: PL=Pe	ore Lining, M=Matr es Type	ix)	М		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	htration, D=Depletio	n, RM=Reduced Matrix, Matrix olor (Moist) 2/1 7/1	CS=Covered % 100 100	/Coated Sand	Grains; Locat Moist)	tion: PL=Pe	ore Lining, M=Matr	ix)	M FS		
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_2.5Y	n, RM=Reduced Matrix, Matrix olor (Moist) 2/1 7/1	CS=Covered % 100 100 here if ind	Coated Sand	Grains; Locat Moist)	tion: PL=Pe	ore Lining, M=Matr es Type		M FS Indicators f	or Problemati	ic Soils <sup>1</sup>
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y	n, RM=Reduced Matrix, Matrix olor (Moist) 2/1 7/1 dicators (check	CS=Covered % 100 100 here if ind	Coated Sand Color ( cators are S5 - Sandy F	Grains; Locat Moist) not present	tion: PL=Pe	ore Lining, M=Matr es Type	Location	M FS <u>Indicators f</u> A9 - 1 cm M	luck (LRR I, J)	ic Soils <sup>1</sup>
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Fic Soil Field In A1- Histosol A2 - Histic Epipe	m, RM=Reduced Matrix, Matrix olor (Moist) 2/1 7/1 dicators (check	CS=Covered % 100 100 here if ind	/Coated Sand Color ( icators are S5 - Sandy F S6 - Stripped	Grains; Locat Moist) not present Redox	tion: PL=Pe Mottle %	ore Lining, M=Matr es Type		M FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_2.5Y	Matrix Olor (Moist) 2/1 7/1 dicators (check	CS=Covered	Coated Sand Color ( Color ( S5 - Sandy F S6 - Stripped F1 - Loamy F	Grains; Locat Moist) Moist) not present Redox I Matrix Jucky Minera	tion: PL=Pe Mottle % t):	ore Lining, M=Matr es Type	Location	M FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox urface (LRR G)	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H)
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Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Tic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck of A11 - Depleted E	Matrix Matrix olor (Moist) 2/1 7/1 dicators (check don ulfide yers (LRR F) (LRR FGH) Below Dark Surface	CS=Covered % 100 100 here if ind	Coated Sand Color ( Color ( S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy f F3 - Depleted F6 - Redox f F7 - Depleted	Grains; Locat Moist) Moist) not present Redox I Matrix Jucky Minera Gleyed Matrix Jark Surface d Dark Surface	tion: PL=Pe Mottle %	ore Lining, M=Matr es Type	Location	M FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H) ) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Tic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted E A12 - Thick Dark	Matrix Matrix olor (Moist) 2/1 7/1 dicators (check don ulfide yers (LRR F) (LRR FGH) Below Dark Surface Surface	CS=Covered % 100 100 here if ind	Coated Sand Color ( Color ( S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy f F3 - Depleted F6 - Redox f F7 - Depleted F8 - Redox f	Grains; Locat Moist) Moist) not present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	tion: PL=Pe Mottle % t):	ore Lining, M=Matr es Type □	Location	M FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H) ) ONS (LRR H, outside MLRA 72, 73) Surface
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Profile Descri (Type: C=Concer	A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muck S3 - 5 cm Mucky	Matrix Olor (Moist) 2/1 7/1 dicators (check don ulfide overs (LRR F) (LRR FGH) Below Dark Surface surface sy Mineral ky Peat or Peat (LRR G	CS=Covered % 100 100 here if ind	Coated Sand Color ( Color ( S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy f F3 - Depleted F6 - Redox f F7 - Depleted F8 - Redox f	Grains; Locat Moist) Moist) not present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	tion: PL=Pe Mottle % t):	ore Lining, M=Matr es Type □	Location	M FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Se F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark S ain in Remarks)	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H) ) ONS (LRR H, outside MLRA 72, 73) Surface )
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-153n44w2-d1			
VEGETATIO		re non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet			
1.	Populus balsamifera	5	Y	FACW				
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 5 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. <u>34</u> X 1 = <u>34</u>			
	Total Cover =	5			FACW spp. 135 X 2 = 270			
			FACW spp. 135 x $2 =$ 270   FAC spp. 0 x $3 =$ 0   FACU spp. 0 x $4 =$ 0					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$			
1.	Salix discolor	60	Υ	FACW	UPL spp. 0 $x 5 = 0$			
2.	Cornus alba	20	Y	FACW				
3.					Total <u>169</u> (A) <u>304</u> (B)			
4.								
5.					Prevalence Index = $B/A = 1.799$			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	 Total Cover =		80		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Phalaris arundinacea	30	Y	FACW				
2.	Poa palustris	20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Epilobium leptophyllum	15	N	OBL	present, unless disturbed or problematic.			
4.	Carex pellita	10	N	OBL	Definitions of Vegetation Strata:			
5.	Lysimachia thyrsiflora	5	N	OBL				
6	Lycopus uniflorus	2	N	OBL	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Iris versicolor	2	N	OBL	height (DBH), regardless of height.			
8.		2	11	ODL				
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
<u>9.</u> 10.					Saping/Sinub - Woody planto loss than o int. 2211, Tegaraless of Height.			
11.					Herb - All herbaceous (non-woody) plants, regardless of size.			
12.					<b>THEID -</b> All Herbaceous (Horf-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	84						
Woody Vine St	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
	Total Cover =							
Remarks:		sy willow a	nd red osi	er dogwoo	od with a few scattered balsam poplar and an herbaceous layer of mixed species.			
	Hydrophytic vegetation is present.							
	Domoriko							
Additional Remarks:								