WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/23/14		
Applicant:	• •			O I was to a (MI DA was I DD)						County:	Pennington		
Investigators: RAJ/BJC				Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	I62A	١٠	I Classification:			-	. w 154n44w22 oo4						
Landform: Slope (%):	Dip 0 - 2%	Lotitus	de: 48.119		cal Relief	-96.313	/11	Datum:		Sample Point	w-154n44w33-aa1		
. , ,		onditions on the site typic						✓ Yes	□ No	Section:			
Are Vegetation				disturbed?	AI : (II 110, 6x	1	e normal circun			Township:			
Are Vegetation			urally prob				✓ Yes		CSCIII:	Range:	Dir:		
SUMMARY O			arany proc	nomano.			_ 100	- 110		rango.	5 11.		
Hydrophytic \			Yes					Hydric Soi	Is Present?	Yes			
Wetland Hyd	•		Yes		-					nt Within A W	etland? Yes		
Remarks:				ass and woo	olly sedge	in a dip v	within a hayfield				nybrid poplar running east-west		
		wetland area. All parar					•				3		
HYDROLOGY		,				<u> </u>							
		icators (Check all that a	annly: Min	nimum of on	e nrimarv	or two se	econdary requi	red)•					
Primary:		icators (Crieck all triat a	apply, will		e primary	OI TWO SE	econdary requi	eu).	Secondary:				
<u>- 1111161 y.</u>	A1 - Surface	Water			B11 - Salt	Crust				<u>.</u> B6 - Surface S	Soil Cracks		
☐ A2 - High Water Table					B13 - Aqua						Vegetated Concave Surface		
	☐ A3 - Saturation			□ C1 - Hydrogen Sulfide Odor □ □ □ C2 - Dry Season Water Table □							B10 - Drainage Patterns		
	B1 - Water M B2 - Sedimer						iter Table spheres on Living	Roots (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (tilled)		
	B3 - Drift Dep	•					duced Iron	rtoots (not till			n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin I	Muck Surfa	ace		✓	D2 - Geomorp	phic Position		
	B5 - Iron Dep				Other (Exp	olain)			☑	D5 - FAC-Neu			
		on Visible on Aerial Imagery tained Leaves								D7 - Frost-He	aved Hummocks (LRR F)		
	ba - water-o	tained Leaves											
Field Observ	vations:												
Surface Water		Yes □	Denth:		(in.)								
Water Table		Yes	Depth:		- (in.)			Wetland F	Hydrology	Present?	Υ		
Saturation Pr		Yes	Depth:		(in.)								
			Bopuii.		_ (,								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
									4 11 1				
Remarks:		stream gauge, monitoring well-developed mat of we						cators of w	etland hydro	ology are pre	sent.		
Remarks:								cators of w	etland hydro	ology are pre	sent.		
Remarks:	There is a v	vell-developed mat of we	etland mo	ss through	out most o	of the wet	land area. Indi		etland hydro	ology are pre	sent.		
Remarks: SOILS Profile Descri	There is a vector of the second of the secon		etland mo	ess throughous the sent the indi	out most o	of the wet	land area. Indi	dicators.)	etland hydro	ology are pre	sent.		
Remarks: SOILS Profile Descri	There is a vector of the second of the secon	vell-developed mat of we	etland mo	ess throughous the sent the indi	out most o	of the wet	land area. Indi	dicators.)	etland hydro	ology are pre	sent.		
Remarks: SOILS Profile Descri	There is a vector of the second of the secon	vell-developed mat of we	etland mo	ess throughous the sent the indi	out most o	of the wet	land area. Indi e absence of in ore Lining, M=Matr	dicators.)	etland hydro	ology are pre	sent.		
Remarks: SOILS Profile Descri	There is a vector of the second of the secon	vell-developed mat of weight ibe to the depth needed etion, RM=Reduced Matrix, C	etland mo	ess throughous the sent the indi	cator or co	of the wetle onfirm the ontion: PL=Po	land area. Indi e absence of in ore Lining, M=Matr	dicators.)	etland hydro	ology are pre	sent. Remarks		
Remarks: SOILS Profile Descri (Type: C=Concen	There is a vector of the second of the secon	ibe to the depth needed etion, RM=Reduced Matrix Color (Moist)	to docum	nent the indi	cator or co	onfirm the	land area. Indi e absence of in ore Lining, M=Matr	idicators.)		ology are pre			
Remarks: SOILS Profile Descri (Type: C=Concen	There is a vector of the principle of th	ibe to the depth needed etion, RM=Reduced Matrix Color (Moist)	to docum S=Covered/	nent the indi	cator or co	onfirm the	land area. Indi e absence of in ore Lining, M=Matr	idicators.)		ology are pre			
Remarks: SOILS Profile Descri (Type: C=Concent	There is a vector of the principle of th	ibe to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1	to docum S=Covered/	nent the indi	cator or co	onfirm the	land area. Indi e absence of in ore Lining, M=Matr	idicators.)	Texture C	ology are pre			
Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-9 9-18	There is a vector of the prion (Description, Dependent of the prior) Hue_10YR Hue_2.5Y	ibe to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 7/2	to docum S=Covered/ % 100 70	nent the indi	cator or co	onfirm the	land area. Indi e absence of in ore Lining, M=Matr	idicators.)	Texture C LCOS				
Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-9 9-18	There is a vector of the prion (Description, Dependent of the prior) Hue_10YR Hue_2.5Y	ibe to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 7/2	to docum S=Covered/ % 100 70	nent the indi	cator or co	onfirm the	land area. Indi e absence of in ore Lining, M=Matr	idicators.)	Texture C LCOS				
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Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-9 9-18	There is a vector of the prion (Description (Description), D=Deportration, D=D	ibe to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 6/10GY	to docum S=Covered/ // 100 70 30	nent the indi Coated Sand	cator or co	onfirm the motion: PL=Po	land area. Indi e absence of in ore Lining, M=Matr	idicators.)	Texture C LCOS				
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18	There is a vector of the prion (Description (Description), D=Deportration, D=D	ibe to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 6/10GY	to docum S=Covered/ // 100 70 30	nent the indi	cator or co	onfirm the motion: PL=Po	e absence of incore Lining, M=Matres Type	idicators.)	Texture C LCOS SCL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18	There is a vector of the prion (Description (Description), D=Deportration, D=D	ibe to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 6/10GY	to documes=Covered/ % 100 70 30 here if indi	cators are r	cator or constant control of preserved ox	onfirm the motion: PL=Po	e absence of incore Lining, M=Matres Type	idicators.)	Texture C LCOS SCL	fine sandy	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a very ption (Description (Description), D=Deportration, D=Deportrati	ibe to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 6/10GY Indicators (check hoppedon)	to documents=Covered/100 70 30 and the region in the regio	Color (S5 - Sandy R S6 - Stripped	cator or congrains; Local Moist) not preservedox Matrix	onfirm the ation: PL=Po	e absence of incore Lining, M=Matres Type	Location	Texture C LCOS SCL Indicators 1 A9 - 1 cm M A16 - Coast	fine sandy for Problemati fuck (LRR I, J) t Prairie Redox	Remarks c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a very ption (Description, Depoint on the property of	ibe to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 7/2 6/10GY Indicators (check hopedon etic)	to docum S=Covered/ %	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or concentrations; Local Moist) Moist) not preserved with the concentration of the co	onfirm the stion: PL=Po	e absence of incore Lining, M=Matres Type	Location	Texture C LCOS SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	fine sandy for Problemati Muck (LRR I, J) t Prairie Redox surface (LRR G)	Remarks c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a very ption (Description), D=Deportration, D=Deportr	ibe to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 7/2 6/10GY Indicators (check hopedon stic in Sulfide	to documed section with the section with	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or congrains; Local Moist) Moist) not preser edox Matrix Mucky Miner Bleyed Matr	onfirm the stion: PL=Po	e absence of incore Lining, M=Matres Type	Location	Texture C LCOS SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	fine sandy for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi	Remarks c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a vertical prion (Description (Description), D=Deportation, D=Deportatio	ibe to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 7/2 6/10GY Indicators (check hopedon stic in Sulfide I Layers (LRR F)	to documents=Covered/2000 100 70 30 100 100 100 100 100 100 100 100 100	Color (Coated Sand Coated Sand Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	cator or congrains; Local Moist) not preservedox Matrix Mucky Miner Bleyed Matrix Matrix	onfirm the ation: PL=Po	e absence of incore Lining, M=Matres Type	Location	Texture C LCOS SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	fine sandy for Problemati Muck (LRR I, J) t Prairie Redox surface (LRR G) Plains Depressi ced Vertic	Remarks c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a vertical prion (Description), D=Depoint Hue_10YR Hue_10YR Hue_2.5Y Gley1 ic Soil Field A1- Histosol A2 - Histic Epoma A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 7/2 6/10GY Indicators (check hopedon stic in Sulfide	to documes=Covered/ %	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or concentrations; Local Moist) Moist) Moist) Motrix Mucky Miner Bleyed Matrix Matrix Matrix Matrix Matrix And Surface	onfirm the stion: PL=Po	e absence of incore Lining, M=Matres Type	Location	Texture C LCOS SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	fine sandy for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a vertical prion (Description), D=Depoint attain, D=Depoint attain, D=Depoint attain, D=Depoint attain, D=Depoint attained at a second at a s	ibe to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 7/2 6/10GY Indicators (check has bipedon stic in Sulfide in S	to documents=Covered/2000 100 70 30 100 100 100 100 100 100 100 100 100	Color (Coated Sand Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not preserved Matrix Mucky Miner Bleyed Matrix Mucky Miner Bleyed Matrix Matri	onfirm the ation: PL=Po	e absence of inore Lining, M=Matres Type	Location	Texture C LCOS SCL Indicators 6 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	fine sandy for Problemati Muck (LRR I, J) t Prairie Redox surface (LRR G) Plains Depressi ced Vertic Parent Material	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface		
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a variation (Description (Description), D=Deportmentation, D=	ibe to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 7/2 6/10GY Indicators (check has bipedon stic on Sulfide at Layers (LRR F) lick (LRR FGH) led Below Dark Surface ark Surface lucky Mineral Mucky Peat or Peat (LRR G,	to documes=Covered/ %	Color (Coated Sand Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not preserved Matrix Mucky Miner Bleyed Matrix Mucky Miner Bleyed Matrix Matri	onfirm the ation: PL=Po	e absence of inore Lining, M=Matres Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain	fine sandy for Problemation Muck (LRR I, J) t Prairie Redox Furface (LRR G) Plains Depressiced Vertic Parent Material To Shallow Dark (Stain in Remarks)	C Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-18 9-18 NRCS Hydri	There is a vertical prion (Description), D=Depoint attain, D=Depoint attain, D=Depoint attain, D=Depoint attain, D=Depoint attained at a second at a s	ibe to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 7/2 6/10GY Indicators (check has bipedon stic in Sulfide in	to documes=Covered/ %	Color (Coated Sand Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not preserved Matrix Mucky Miner Bleyed Matrix Mucky Miner Bleyed Matrix Matri	onfirm the ation: PL=Po	e absence of inore Lining, M=Matres Type	Location	Texture C LCOS SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	fine sandy for Problemation Muck (LRR I, J) t Prairie Redox Furface (LRR G) Plains Depressiced Vertic Parent Material To Shallow Dark (Stain in Remarks)	Remarks c Soils¹ (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-154n44w33-aa1			
VESETATION			•					
VEGETATION Tree Stratum ((Species identified in all uppercase are Plot size: 30 ft. radius)	non-native s	species.)					
HEE Ollatoin 1	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata:(B)			
5. 6.					Descript of Deminant Charles That Are ODL EACIN or EAC: 100.0% (A/R)			
7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. $30 X 1 = 30$			
	Total Cover = _	0	_		FACW spp. 50			
					FAC spp. $0 \times 3 = 0$			
4	Stratum (Plot size: 15 ft. radius)				FACU spp. 2 X 4 = 8			
1. 2.					$OPL spp. \underline{\qquad \qquad } x \ S = \underline{\qquad \qquad } $			
3.					Total <mark>82</mark> (A) 138 (B)			
4.								
5.					Prevalence Index = B/A = 1.683			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9. 10.					Rapid Test for Hydrophytic Vegetation X Dominance Test is > 50%			
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
			-		Morphological Adaptations (Explain) *			
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Phalaris arundinacea	50	Υ	FACW				
2.	Carex pellita	30	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Lotus comiculatus	2	N	FACU	present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5. 6					Trop - West release 2 in 77 Com) or more in diameter at broad			
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.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14. 15.				_	Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	82			Trooty Villes - Ville			
	10.0.000.	<u> </u>	-					
Woody Vine Str	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?Y			
5. 4.								
4.	Total Cover =	0		_				
Remarks:			ass and w	voolly sed	lge and very little else. Hydrophytic vegetation is present. The area has been			
	mowed/hayed this year but species are still id			, , , , , , , , , , , , , , , , , , ,	go and toly mas older lightly as a golden and process of the second seco			
Additional R	temarks:							