WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/08/14				
Applicant:										County: State:	Pennington				
Investigators				Subregion (MLRA or LRR): MLRA 56							MN				
Soil Unit:	I50A				I Classification:	:									
Landform:	Dip		4= 0=		cal Relief:					Sample Point:	w-152n43w23-b1				
Slope (%):	0 - 2%	Latitude:			Longitude:			Datum:							
		nditions on the site typical			ar? (If no, exp				□ No	Section:					
Are Vegetation		□, or Hydrology □signifi	_			Are	e normal circun	-	esent?	Township:					
Are Vegetation		□, or Hydrology □atura	lly prol	blematic?			✓ Yes	□ No		Range:	Dir:				
SUMMARY C															
Hydrophytic \	_		Yes		_				Is Present?		(I IO V				
Wetland Hyd			Yes				1 1 1 1 1			t Within A We	etland? Yes				
Remarks: The wetland is a seasonally flooded basin located in a farmed hayfield and dominated by Norwegian cinquefoil.															
HYDROLOG'	Y														
Wetland Hy	drology Indi	icators (Check all that app	oly; Mii	nimum of on	e primary	or two s	econdary requi	red):							
Primary:		`						,	Secondary:						
					B11 - Salt (B6 - Surface S							
	A2 - High Water Table				B13 - Aqua				Vegetated Concave Surface						
	A3 - Saturatio B1 - Water Ma				C1 - Hydrog C2 - Dry Se		B10 - Drainage	Rhizospheres on Living Roots (tilled)							
	B2 - Sedimen						spheres on Living	Roots (not till	• -	C8 - Crayfish E					
	B3 - Drift Dep	•			C4 - Presei			`		•	Nisible on Aerial Imagery				
	B4 - Algal Ma				C7 - Thin M		ace		☑	D2 - Geomorpl					
	B5 - Iron Depo				Other (Expl	lain)			☑	D5 - FAC-Neut					
	B9 - Water-St	n Visible on Aerial Imagery								D7 - Frost-nea	ved Hummocks (LRR F)				
	Do Water Of	anica Ecaves													
Field Observ	vations:														
Surface Wate		Yes	Depth:		(in.)										
Water Table		Yes	Depth:		(in.)			Wetland H	łydrology i	Present?	Υ				
Saturation Pr		Yes	Depth:		(in.)										
	<u>`</u>					Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:	Remarks: No primary wetland hydrology indicators present. Wetland hydrology is assumed based on landscape position and hydrophytic vegetation.														
										nd hydrophytic	c vegetation.				
COLLC		wetiand hydrology indicato	ors pre	sent. Wetlar	nd hydrolog	gy is ass	sumed based o	n landscape	e position ar	nd hydrophytid	c vegetation.				
	intion (Doggri	, 0,	·					•	e position ar	nd hydrophytio	c vegetation.				
Profile Descri		be to the depth needed to	docun	nent the indi	cator or co	onfirm th	e absence of ir	ndicators.)	position ar	nd hydrophytio	c vegetation.				
		, 0,	docun	nent the indi	cator or co	onfirm th	e absence of ir	ndicators.)	position ar	nd hydrophytio	c vegetation.				
Profile Descri		be to the depth needed to etion, RM=Reduced Matrix, CS=0	docun	nent the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	ndicators.)	e position ar	nd hydrophytio	c vegetation.				
Profile Descri (Type: C=Concer		be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix	docun Covered	nent the indi	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr	ndicators.)		nd hydrophytio					
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist)	docun Covered	nent the indi Coated Sand C	cator or co Grains; Locat Moist)	onfirm the	e absence of inore Lining, M=Matres es Type	ndicators.)	Texture	nd hydrophytic	Remarks				
Profile Descri (Type: C=Concer Depth (In.)	Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1	docun Covered % 70	Color (I	cator or co Grains; Locat Moist) 5/6	onfirm the ion: PL=P	e absence of inore Lining, M=Matres es Type C	ndicators.) rix) Location M	Texture SCL	nd hydrophytic					
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Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16	Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2	docun Covered % 70 96	Color (I Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 5/6 3/4 6/8	Mottle 30 3	e absence of inore Lining, M=Matrees Type C C C	Location M M M	Texture SCL FS FS	nd hydrophytic					
Profile Descri (Type: C=Concer Depth (In.)	Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2	docun Covered % 70	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6	onfirm the ion: PL=P	e absence of inore Lining, M=Matrees Type C C C C	Location M M M M	Texture SCL FS FS LFS	nd hydrophytic					
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Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16	Hue_10YR Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2	% 70 96	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR Hue_7.5YR	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6	Mottle Mottle 30 3 1 5	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M	Texture SCL FS FS LFS	nd hydrophytic					
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16	Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2	% 70 96	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6	Mottle Mottle 30 3 1 5	e absence of inore Lining, M=Matrees Type C C C C	Location M M M M	Texture SCL FS FS LFS LFS		Remarks				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2	% 70 96 94	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR Hue_7.5YR	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present	Mottle Mottle 30 3 1 5	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M M	Texture SCL FS FS LFS LFS	or Problematic	Remarks				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here)	% 70 96 94	Color (Indicated Sand Sand) Research	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present	Mottle Mottle 30 3 1 5	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M	Texture SCL FS FS LFS LFS LFS Indicators f	or Problematic	Remarks				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here)	% 70 96 94	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_7.5YR Hue_7.5YR Icators are r	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present	Mottle % 30 3 1 5 1	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M	Texture SCL FS FS LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast	or Problematic luck (LRR I, J) Prairie Redox (Remarks				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here)	% 70 96 94	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_7.5YR Hue_7.5YR Icators are r	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present edox Matrix fucky Minera	Mottle % 30 3 1 5 1	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M	Texture SCL FS FS LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here ipedon stice in Sulfide Layers (LRR F)	% 70 96 94	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR Hue_7.5YR Grade Tolor of the color of the	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present edox Matrix flucky Minera Gleyed Matrix I Matrix	Mottle % 30 3 1 5 1	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M M ———————————————————————	Texture SCL FS FS LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressionsed Vertic	Remarks Soils ¹ LRR F, G, H)				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH)	% 70 96 94 e if ind	Color (Indicated Sand Sand Sand Sand Sand Sand Sand San	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface	Mottle % 30 3 1 5 1	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M M ———————————————————————	Texture SCL FS FS LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	For Problematical Suck (LRR I, J) Prairie Redox (LRR G) Plains Depression Sed Vertical Parent Material	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 70 96 94	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR Hue_7.5YR Grade Tolor of the color of the	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present edox Matrix flucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface	Mottle % 30 3 1 5 1	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M O M O M O M O M O M O M O M	Texture SCL FS FS LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	% 70 96 94	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR Hue_7.5YR Grade Tolor of the color of the	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present edox Matrix flucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	Mottle % 30 3 1 5 1	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M ———————————————————————————	Texture SCL FS FS LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	For Problematical Suck (LRR I, J) Prairie Redox (LRR G) Plains Depression Sed Vertical Parent Material	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)				
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth needed to etion, RM=Reduced Matrix, CS=0 Matrix Color (Moist) 2/1 4/2 5/2 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	% 70 96 94 e if ind	Color (I Hue_10YR Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR Hue_7.5YR Grade Tolor of the color of the	Cator or co Grains; Locat Moist) 5/6 3/4 6/8 5/6 4/6 not present edox Matrix flucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	Mottle % 30 3 1 5 1	e absence of inore Lining, M=Matroes Type C C C C C	Location M M M M M ———————————————————————————	Texture SCL FS FS LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)				
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-152n43w23-b1			
VEGETATION		re non-native	species.)					
Tree Stratum (Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.	<u>opedies rvame</u>	<u> 70 00001</u>	Dominant	<u>ma.otatus</u>	Dominance rest Worksheet			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)			
3.					(
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.					(42)			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. $35 \times 1 = 35$			
	Total Cover =	0			FACW spp. $\frac{10}{10}$ \times $2 = \frac{20}{10}$			
					FACW spp. 10			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 15 $x 4 = 60$			
1.					UPL spp. $0 x 5 = 0$			
2.								
3.					Total 90 (A) 205 (B)			
4.								
5.					Prevalence Index = B/A = 2.278			
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) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Potentilla norvegica	30	Υ	FAC				
2.	Rorippa palustris	25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Artemisia biennis	15	N	FACU	present, unless disturbed or problematic.			
4.	Persicaria maculosa	10	N	FACW	Definitions of Vegetation Strata:			
5.	Gratiola neglecta	10	N	OBL				
6					Tree - 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.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	90						
Woody Vine Sti	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?Y			
5.								
4.	T-1-1-0	^						
Domontos	Total Cover =		auafall an	d basses!				
Remarks:	The wetland vegetation is dominated by Nor	rwegian cin	queroii and	a bog yelld	DWCress.			
	_							
Additional Remarks:								