## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/05/14
Applicant:				0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						County:	Red Lake
	Investigators: KRG/BCS			Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit: Landform:							Classification:			Commis Deint	454×42×44 o4
Slope (%):	Crest         Local Relief: VL           0 - 2%         Latitude: 47.905475         Longitude: -95.998460         Datum:								Sample Point:	u-151n42w14-a1	
		nditions on the site						☑Yes	□No	Section:	
Are Vegetation		☐ or Hydrology			AI : (II 110, CA)		normal circun			Township:	
Are Vegetation		☐ or Hydrology				,	✓ Yes	□No	ooone.	Range:	Dir:
SUMMARY C			<b>L</b> atarany p	robiomatio:						range.	511.
Hydrophytic \			No					Hydric Soi	Is Present?	' No	
Wetland Hyd			No		•					nt Within A We	etland? <b>No</b>
Remarks:				slope on a bei	m adjacer	nt to a ro	adside ditch. V				rome, reed canary grass, and
HYDROLOG											
		cators (Check all	I that apply: I	Minimum of on	o primary	or two co	oondary roqui	rod):			
Primary:		Cators (Crieck all	і шасарріу, і	Williniani Oi On	e primary	OI LWO S	econdary requi	eu).	Secondary:		
<u> </u>	A1 - Surface \	Vater			B11 - Salt	Crust				B6 - Surface So	oil Cracks
	A2 - High Wat				B13 - Aqua						/egetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Ma B2 - Sedimen				C2 - Dry So		ter Table pheres on Living	Poote (not till		C3 - Oxidized F	Rhizospheres on Living Roots (tilled)
I	B3 - Drift Dep				C4 - Prese			110013 (1101 1111			Visible on Aerial Imagery
	B4 - Algal Mat	or Crust			C7 - Thin N		ice			D2 - Geomorph	
	B5 - Iron Depo				Other (Exp	lain)				D5 - FAC-Neut	
	B7 - Inundatio	n Visible on Aerial Im	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)
	D3 - Water-of	anica Leaves									
Field Observ	vations:										
	er Present?	Yes 🔲	Dep	th:	(in.)						
Water Table		Yes 🔲		th:	-			Wetland F	lydrology l	Present?	N
Saturation Pr		Yes 🗆	Dep		(in.)						<del>-</del>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No indicators of wetland hydrology were observed.											
remarks.	No indicator	s or welland riyard	ology were o	bserved.							
	140 indicator	s or welland hydro	ology were o	bserved.							
SOILS		•	0,		cator or co	onfirm th	e absence of ir	idicators.)			
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doc	ument the indi							
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doc	ument the indi							
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doc	ument the indi			ore Lining, M=Matr				
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doc	eument the indi	Grains; Loca	Mottle	ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix	eeded to doc latrix, CS=Cove	red/Coated Sand	Grains; Loca	Mottle %	ore Lining, M=Matr es Type D	ix)	SC		Remarks
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	red/Coated Sand	Grains; Loca Moist) 5/2	Mottle	ore Lining, M=Matr es Type	Location			Remarks
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	cument the indired/Coated Sand  Color (I Hue_2.5Y Hue_10YR	Grains; Loca Moist) 5/2	Mottle %	ore Lining, M=Matr es Type D	Location M	SC		Remarks
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 3/1	eeded to doc latrix, CS=Cove	cument the indired/Coated Sand  Color (I Hue_2.5Y Hue_10YR	Grains; Loca Moist) 5/2	Mottle %	ore Lining, M=Matr es Type D	Location M	SC SC		Remarks
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 3/1	eeded to doc latrix, CS=Cove	cument the indired/Coated Sand  Color (I Hue_2.5Y Hue_10YR	Grains; Loca Moist) 5/2	Mottle %	ore Lining, M=Matr es Type D	Location M	SC SC		Remarks
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 3/1	eeded to doc latrix, CS=Cove	cument the indired/Coated Sand  Color (I Hue_2.5Y Hue_10YR	Grains; Loca Moist) 5/2	Mottle %	ore Lining, M=Matr es Type D	Location M	SC SC		Remarks
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18	iption (Descri	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 3/1	eeded to doccurry, CS=Cove  // // // // // // // // // // // // /	cument the indired/Coated Sand  Color (I Hue_2.5Y Hue_10YR	Moist) 5/2 5/6	Mottle % 5	ore Lining, M=Matr es Type D	Location M	SC SC		Remarks
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18	iption (Descrintration, D=Deplete Hue_10YR	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 3/1	eeded to doc latrix, CS=Cove	cument the indired/Coated Sand of Color (In the Later 10 Minutes)	Moist) 5/2 5/6  not presen	Mottle % 5	ore Lining, M=Matr es Type D C	Location M M	SC SC SICL	for Problematic	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  NRCS Hydr	iption (Descrintration, D=Depleted Hue_10YR  Hue_10YR  Hue_10YR  ic Soil Field  A1- Histosol	be to the depth nettion, RM=Reduced Mi  Matrix Color (Moist) 3/1 2/1  Indicators (ch	eeded to doc latrix, CS=Cove	cument the indicators are r	Moist) 5/2 5/6 not presen	Mottle % 5	ore Lining, M=Matr es Type D C	Location M M	SC SC SICL Indicators 1	luck (LRR I, J)	: Soils <sup>1</sup>
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  NRCS Hydr	iption (Descrintration, D=Deplete Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep	be to the depth nettion, RM=Reduced Minestern Matrix  Color (Moist)  3/1  2/1  Indicators (chapedon	eeded to doculatrix, CS=Cove  % 94 10 neck here if i	cument the indired/Coated Sand of Color (in the property of th	Moist) 5/2 5/6  not presen edox Matrix	Mottle % 5 1	ore Lining, M=Matr es Type D C	Location M M	SC SC SICL Indicators 1 A9 - 1 cm M	luck (LRR I, J) Prairie Redox (I	: Soils <sup>1</sup>
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced M:  Matrix Color (Moist) 3/1 2/1 Indicators (ch	eeded to docelatrix, CS=Cove  % 94 10 neck here if i	cument the indired/Coated Sand of Color (in the color of	Moist) 5/2 5/6  not presen edox Matrix fucky Minera	Mottle	ore Lining, M=Matr es Type D C	Location M M	SC SC SICL Indicators 1 A9 - 1 cm M A16 - Coast 37 - Dark Si	luck (LRR I, J) : Prairie Redox (I urface (LRR G)	: <u>Soils¹</u> LRR F, G, H)
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth ne etion, RM=Reduced Mi  Matrix Color (Moist)  3/1  2/1  Indicators (chapedon tic a Sulfide	eeded to doculatrix, CS=Cove  // // // // // // // // // // // // /	cument the indired/Coated Sand of Color (In the Land of Color (In	Moist) 5/2 5/6  not presen edox Matrix flucky Miner; Gleyed Matrix	Mottle	ore Lining, M=Matr es Type D C	Location M M	SC SICL SICL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark St I F16 - High F	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio	: Soils <sup>1</sup>
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  NRCS Hydr	Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth ne etion, RM=Reduced Mi  Matrix Color (Moist)  3/1  2/1  Indicators (chapedon tic n Sulfide Layers (LRR F)	eeded to doc latrix, CS=Cove	cument the indired/Coated Sand of Color (in the property of th	Moist) 5/2 5/6  not presen edox Matrix Mucky Minera Eleyed Matrix Matrix Matrix	Mottle % 5 1 tt):	ore Lining, M=Matr es Type D C	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc	luck (LRR I, J) : Prairie Redox (I urface (LRR G) Plains Depressio ced Vertic	: <u>Soils¹</u> LRR F, G, H)
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  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 Muc A11 - Deplete	Matrix Color (Moist) 3/1 2/1 Indicators (chapedon tic a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to docelatrix, CS=Cove  % 94 10 neck here if i	cument the indired/Coated Sand of Color (in the second sec	Moist) 5/2 5/6  not presen edox Matrix Mucky Minera eleyed Matrix I Matrix ark Surface I Dark Surface	Mottle % 5 1 tt):	ore Lining, M=Matr es Type D C	Location M M	Indicators 1 A9 - 1 cast ST - Dark St F16 - High F F16 - Red F TF2 - Red F TF12 - Very	fluck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark Si	E Soils 1  LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  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 A11 - Deplete A12 - Thick D	be to the depth ne etion, RM=Reduced Mi  Matrix Color (Moist)  3/1  2/1  Indicators (chapedon tic a Sulfide Layers (LRR FGH) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to doccatrix, CS=Cove  % 9/x 10 neck here if i	ument the indi red/Coated Sand of the indi Color ( Hue_2.5Y Hue_10YR  mdicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  5/2  5/6  not presen  edox Matrix flucky Miner: Gleyed Matri: I Matrix ark Surface I Dark Surface epressions	Mottle % 5 1	ore Lining, M=Matrices Type D C	Location M M	Indicators 1 A9 - 1 cast ST - Dark St F16 - High F F16 - Red F TF2 - Red F TF12 - Very	luck (LRR I, J) : Prairie Redox (I urface (LRR G) Plains Depressio ced Vertic Parent Material	E Soils 1  LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  NRCS Hydr	Hue_10YR  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroge A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	Matrix Color (Moist) 3/1 2/1 Indicators (chapedon tic bayers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface are ark Surface ark Surface are ark Surface are ark Surface are are ark Surface are ark Surface are ark Surface are are are are are	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand of the indi Color ( Hue_2.5Y Hue_10YR  mdicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  5/2  5/6  not presen  edox Matrix flucky Miner: Gleyed Matri: I Matrix ark Surface I Dark Surface epressions	Mottle % 5 1	ore Lining, M=Matrices Type D C	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S1 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	duck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio 2d Vertic Parent Material Shallow Dark S ain in Remarks)	: Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  urface
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11  11-18  NRCS Hydr	Hue_10YR  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroge A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	Matrix Color (Moist) 3/1 2/1 Indicators (chapedon tic a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ark Surface ark Peat (LR) Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand of the indi Color ( Hue_2.5Y Hue_10YR  mdicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  5/2  5/6  not presen  edox Matrix flucky Miner: Gleyed Matri: I Matrix ark Surface I Dark Surface epressions	Mottle % 5 1	ore Lining, M=Matrices Type D C	Location M M	Indicators 1 A9 - 1 cm S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	duck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio 2d Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils 1  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: u-151n42w14-a1				
VEGETATION	(Species identified in all uppercase are	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: 1 (A)				
3.					`` <i>_</i> ``				
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.					Total Number of Bonnian opposite / til ottala.				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)				
7.					reicent of borninant opecies that Ale OBL, I AGW, of I AG.				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	<u>_</u>				OBL spp. 0 x 1 = 0				
	Total Cover =	0	_		FACW spp. 20 x 2 = 40				
					FAC spp. 7				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 35 X 4 = 140				
1.					UPL spp. 50 x 5 = 250				
2.					··· <del></del>				
3.					Total 112 (A) 451 (B)				
4.					(1)				
5.					Prevalence Index = B/A = <b>4.027</b>				
					Prevalence Index = B/A = 4.021				
6.	_								
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	0			Prevalence Index is ≤ 3.0 *				
	-		_		Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	50	Υ	UPL					
2.	Phalaris arundinacea	20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Tanacetum vulgare	20	Y	FACU	present, unless disturbed or problematic.				
4.				_					
	Poa pratensis	10	N	FACU	Definitions of Vegetation Strata:				
5.	Cirsium arvense	5	N	FACU	_				
6	Solidago gigantea	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Sonchus arvensis	2	N	FAC	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.				
15.	T.1.0	440			TYOOUY VIIIGS - 7 1000, 1000, 1000 or 100gil.				
	Total Cover =	112	_						
	atum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.				_					
4.									
<u>'</u>	Total Cover =	0		_					
Remarks:	Vegetation is dominated by smooth brome, re		/ drass ar	nd tanev					
i Acinaiks.	vegetation is dominated by smooth brome, it	Jou Carlary	y grass, ar	ia iarisy.					
Additional Remarks:									