WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/17/14				
Applicant:		Enbridge								County:	Red Lake				
Investigators		BCS/KRG			Subregior	n (MLRA	or LRR):	MLRA 56		State:	MN				
Soil Unit:	159A			_		NWI	Classification:								
Landform:	Talf			Lo	cal Relief:					Sample Point	u-151n41w19-f1				
Slope (%):	0 - 2%		Latitude: 47.87		Longitude:			Datum:		-					
		nditions on the site			ar? (If no, exp			⊡Yes	D No	Section:					
Are Vegetation		📮 or Hydrology				Are	e normal circum	•	esent?	Township:					
Are Vegetation		🖵 or Hydrology	Laturally pro	blematic?			Yes	□No		Range:	Dir:				
SUMMARY C															
Hydrophytic Y			No		_			Hydric Soil							
Wetland Hyd			No							nt Within A W					
Remarks:	The upland	sample point is loo	cated within a	n open wood	lland domir	nated by	quaking asper	in the cano	opy and Kei	ntucky bluegr	ass in the herbaceous layer.	•			
HYDROLOG	Y														
Wetland Hy	drology Ind	icators (Check all	that apply; M	inimum of or	ne primary	or two se	econdary requii	red):							
Primary									Secondary:						
A1 - Surface Water										 B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface 					
	A2 - High Water TableA3 - Saturation				B13 - Aqua										
	B1 - Water M									B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)					
	B2 - Sedimen				C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not till	• 🗖	C8 - Crayfish	Burrows	,			
	B3 - Drift Dep			C4 - Presence of Reduced Iron							n Visible on Aerial Imagery				
	B4 - Algal Ma B5 - Iron Dep				Other (Expl		ace			D2 - Geomorphic Position D5 - FAC-Neutral Test					
		on Visible on Aerial Im	agery			iairi)					aved Hummocks (LRR F)				
	B9 - Water-St								_						
Field Obser	vations:														
Surface Wat	er Present?	Yes 🛛	Depth	:	(in.)			Matland II	ludua la auri	Duese ant 2	N				
Water Table	Present?	Yes 🛛	Depth		(in.)			Wetland H	iyarology	Present?	Ν				
Saturation P	resent?	Yes 🛛			(in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:															
Describe Rec	orded Data (s	stream gauge, moni	itoring well, ae	rial photos, pr	evious insp	ections).	if available:								
			-				if available:								
Describe Rec Remarks:		stream gauge, moni or secondary indic	-				if available:								
			-				if available:								
Remarks: SOILS Profile Descri	No primary	or secondary indic	eeded to docu	ment the indi	vere obse	erved.	e absence of in								
Remarks: SOILS Profile Descri	No primary	or secondary indic	eeded to docu	ment the indi	vere obse	erved.	e absence of in								
Remarks: SOILS Profile Descri	No primary	or secondary indic ibe to the depth ne etion, RM=Reduced Ma	eeded to docu	ment the indi	vere obse	erved. onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr								
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic ibe to the depth ne etion, RM=Reduced Ma Matrix	cators of wetla	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matr es	ix)							
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere %	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr		Texture		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4	No primary ption (Descrintration, D=Depl Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covere % 100	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matr es	ix)	SIL		Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15	No primary ption (Descri ntration, D=Depl Hue_10YR Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3	eeded to docu atrix, CS=Covere % 100 90	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matr es	ix)	SIL SCL	Gravel fragments					
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15	No primary ption (Descrintration, D=Deplet Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2	eeded to docu atrix, CS=Covere % 100 90 10	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matr es	ix)	SIL SCL SCL	Gravel fragments Gravel fragments	present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15	No primary ption (Descri ntration, D=Depl Hue_10YR Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3	eeded to docu atrix, CS=Covere % 100 90	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matr es	ix)	SIL SCL	-	present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15	No primary ption (Descrintration, D=Deplet Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2	eeded to docu atrix, CS=Covere % 100 90 10	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matr es	ix)	SIL SCL SCL	-	present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15	No primary ption (Descrintration, D=Deplet Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2	eeded to docu atrix, CS=Covere % 100 90 10	ment the indi	/ were obse cator or co Grains; Locat	erved. onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matr es	ix)	SIL SCL SCL	-	present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18	No primary ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2	eeded to docu atrix, CS=Covere % 100 90 10	ment the indi d/Coated Sand Color (/ were observed to be a cator or cc Grains; Locat Moist)	erved. onfirm the ion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es	ix)	SIL SCL SCL	-	present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18	No primary ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2	eeded to docu atrix, CS=Covere % 100 90 10 100 eeck here if in	ment the indi d/Coated Sand Color (/ were observed to be a cator or cc Grains; Locat Moist)	erved. onfirm the ion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIL SCL SIC Indicators 1	Gravel fragments	present present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr	No primary ption (Descrintration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch	eeded to docu atrix, CS=Covere % 100 90 10 100 eck here if in	ment the indi d/Coated Sand Color (dicators are i dicators are i	Vere observer of construction of construction of construction of construction of the c	erved. onfirm the ion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIL SCL SIC SIC Indicators f A9 - 1 cm M	Gravel fragments	present present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr	No primary ption (Descrintration, D=Deple Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon	eeded to docu atrix, CS=Covere % 100 90 10 100 eeck here if in	ment the indi d/Coated Sand Color (dicators are i dicators are i 1 S5 - Sandy R 1 S6 - Stripped	Vere observer of construction	erved. onfirm the ion: PL=Pc Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIL SCL SIC Indicators f A9 - 1 cm M A16 - Coast	Gravel fragments for Problemati luck (LRR I, J) Prairie Redox	present present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr	No primary ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch spedon stic	eeded to docu atrix, CS=Covere % 100 90 10 100 100 eck here if in	Ind hydrology ment the indi d/Coated Sand Color (dicators are i S5 - Sandy R S6 - Stripped F1 - Loamy N	Moist) Moist) Moist) Moist Moist Moist Moist Moist Moist Moist Moist Moist Moist Moist Moist	erved. onfirm the ion: PL=Pc Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIL SCL SIC Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si	Gravel fragments for Problematii luck (LRR I, J) Prairie Redox urface (LRR G)	present present c Soils ¹ (LRR F, G, H)				
Remarks: SOILS Profile Descrit (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr	No primary ption (Descrit tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hia A4 - Hydroger	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic n Sulfide	eeded to docu atrix, CS=Covere % 100 90 10 100 100 100	Ind hydrology ment the indi d/Coated Sand Color (Color (dicators are i S5 - Sandy R S6 - Stripped S6 - Stripped F1 - Loamy N F2 - Loamy C	(were observed to be a constructed of the construc	erved. onfirm the ion: PL=Pc Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIL SCL SIC SIC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Gravel fragments for Problemati luck (LRR I, J) : Prairie Redox urface (LRR G) Plains Depressi	present present				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr	No primary ption (Descrintration, D=Depiner Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epiner A3 - Black His A4 - Hydroge A5 - Stratified	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch spedon stic	eeded to docu atrix, CS=Covere % 100 90 10 100 100 100	Ind hydrology ment the indi d/Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F2 - Loamy C F3 - Depleted	Vere observer of construction	erved.	e absence of in ore Lining, M=Matr es Type		SIL SCL SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	Gravel fragments for Problemati luck (LRR I, J) : Prairie Redox urface (LRR G) Plains Depressi	present present c Soils ¹ (LRR F, G, H)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr	No primary ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depiete	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to docu atrix, CS=Covere % 100 90 10 100 100 eck here if in	Ind hydrology ment the indi d/Coated Sand Color (Color (dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F6 - Redox D	Moist) Moist)	erved.	e absence of in ore Lining, M=Matr es Type	Location	SIL SCL SCL SIC A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Gravel fragments for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressis ced Vertic Parent Material Shallow Dark S	present present 2 Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descrit tration, D=Depi Hue_10YR Hue_2.5Y	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR FG) ock (LRR FGH) d Below Dark Surface ark Surface	eeded to docu atrix, CS=Covere % 100 90 10 100 100 ee	Ind hydrology ment the indi d/Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist)	erved.	e absence of in ore Lining, M=Matr es Type		SIL SCL SCL SIC A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Gravel fragments for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi zed Vertic Parent Material	present present 2 Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr	No primary ption (Descrintration, DeDepintration, DeDepintration, DeDepintration, Detemption, Detempti	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eeded to docu atrix, CS=Covere % 100 90 10 100 100 eck here if in	Ind hydrology ment the indi d/Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist)	erved.	e absence of in ore Lining, M=Matr es Type		SIL SCL SCL SIC A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Gravel fragments for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressis ced Vertic Parent Material Shallow Dark S	present present 2 Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descrintration, D=Depletion Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydrogen A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LI	eeded to docu atrix, CS=Covere % 100 90 10 100 100 eck here if in	Ind hydrology ment the indi d/Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist)	erved.	e absence of in ore Lining, M=Matr es Type		SIL SCL SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel fragments for Problematic luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressis ced Vertic Parent Material Shallow Dark S ain in Remarks)	present present <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descrintration, D=Depletion Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydrogen A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral fucky Peat or Peat (LR)	eeded to docu atrix, CS=Covere % 100 90 10 100 100 eck here if in	Ind hydrology ment the indi d/Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist)	erved.	e absence of in ore Lining, M=Matr es Type		SIL SCL SCL SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel fragments for Problematic luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressis ced Vertic Parent Material Shallow Dark S ain in Remarks)	present present 2 Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depiete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral fucky Peat or Peat (LR)	eeded to docu atrix, CS=Covere % 100 90 10 100 100 eck here if in	Ind hydrology ment the indi d/Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist)	erved.	e absence of in ore Lining, M=Matr es Type		SIL SCL SCL SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel fragments for Problemati Juck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi zed Vertic Parent Material Shallow Dark S ain in Remarks)	present present <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	sent,			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR) leyed Matrix	eeded to docu atrix, CS=Covere % 100 90 10 100 100 eck here if in	Ind hydrology ment the indi d/Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Moist) Moist)	erved.	e absence of in ore Lining, M=Matr es Type	Location	SIL SCL SCL SIC A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel fragments for Problemati Juck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi zed Vertic Parent Material Shallow Dark S ain in Remarks)	present present <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	sent,			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 15-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descrintration, D=Depintration, D=Depintrati	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR)	eeded to docu atrix, CS=Covere % 100 90 10 100 100 100 100 100 100 80 100 100	dicators are r S5 - Sandy R S5 - Sandy R S6 - Stripped F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	Vere observer of construction of construction of construction of construction of the c	erved.	e absence of in ore Lining, M=Matr es Type U U RA 72, 73 of LRF RA 72, 73 of LRF	Location	SIL SCL SCL SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of H unless disturbe	Gravel fragments for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	present present c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be pres				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-15 4-15 15-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descrintration, D=Depintration, D=Depintrati	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 3/2 6/2 Indicators (ch ipedon stic Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR)	eeded to docu atrix, CS=Covere % 100 90 10 100 100 100 100 100 100 80 100 100	dicators are r S5 - Sandy R S5 - Sandy R S6 - Stripped F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	Vere observer of construction of construction of construction of construction of the c	erved.	e absence of in ore Lining, M=Matr es Type U U RA 72, 73 of LRF RA 72, 73 of LRF	Location	SIL SCL SCL SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of H unless disturbe	Gravel fragments for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	present present <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface				

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n41w19-f1				
VEGETATION	N (Species identified in all uppercase an Plot size: 30 ft. radius)	e non-native	species.)						
The offaturn (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	45	Y	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 4 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	45			FACW spp. 0 x 2 = 0				
					FAC spp. 50 x $3 = 150$				
	Stratum (Plot size: 15 ft. radius)	-	V	FAC	FACU spp. 81 x 4 = 324				
1. 2.	Cornus racemosa	5	Y Y	FAC FACU	UPL spp. 2 X 5 = 10				
<u> </u>	Rosa blanda	2	T	FACU					
<u> </u>					Total <u>133</u> (A) <u>484</u> (B)				
<u>4.</u> 5.					Prevalence Index = B/A = 3.639				
5. 6.									
6. 7.									
8.					Hydrophytic Vegetation Indicators:				
9.	<u> </u>				Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.	Total Cover =	7			$\frac{1}{2}$ Prevalence Index is $\leq 3.0 *$				
			_		Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	60	Y	FACU	································				
2.	Sanicula marilandica	5	Ν	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Geum aleppicum	5	Ν	FACU	present, unless disturbed or problematic.				
4.	Galium boreale	5	Ν	FACU	Definitions of Vegetation Strata:				
5.	Galium triflorum	2	Ν	FACU					
6	Medicago sativa	2	Ν	UPL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Trifolium pratense	2	N	FACU	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.					Woody Vince All woody vines recording of height				
15.	<u> </u>	0.1			Woody Vines - All woody vines, regardless of height.				
	Total Cover =	81	_						
Woody Vizz Of	rotum (Diot cizo: 20 ft rodius)								
1.	ratum (Plot size: 30 ft. radius)								
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.	P			_					
	Total Cover =	0							
Remarks:	The upland vegetation is dominated by quak		in the can	opy and K	entucky bluegrass in the herbaceous layer.				
Additional Remarks:									