WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	10/03/14				
Applicant: Enbridge											Red Lake				
Investigators: NTT/BEH				Subregion (MLRA or LRR): MLRA 56						State:	MN				
Soil Unit: <u>159A</u> NWI Classification: <u>Pf</u>								PFO1B							
Landform:	Depression				cal Relief:		004			Sample Point:	<u>w-151n42w9-g3</u>				
Slope (%): 8 - 15% Latitude: 47.912162 Longitude: -96.014324 Datum: Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Image: Climatic Cli															
					al ? (If no, ex		arks) e normal circum			Section:					
Are Vegetatio		I C or Hydrology		ly disturbed?		Are	e normal circum Yes	Istances pr	esent?	Township:					
Are Vegetation		I D or Hydrology		oblematic?			e res			Range:	Dir:				
Hydrophytic V			Maa					Lludrie Cei	ls Present?	Vee					
	•		Yes		_						etland? Yes				
Wetland Hyd Remarks:		d is a hardwood sw	Yes	within a graz	od cattle v	ord and	dominated by a			t Within A W	elland? Tes				
Remarks.	The welland	u is a fiaruwoou sw	amp localed	i within a graz	eu calle y	alu allu	uominateu by c	luaking asp		sjonn.					
HYDROLOG	v														
				<i></i> .				I)							
		licators (Check all	that apply; N	linimum of or	ne primary	or two s	econdary requi	red):	Connedan						
Primary:	A1 - Surface	Water		П	B11 - Salt	Crust			Secondary:	B6 - Surface S	coil Cracks				
	A2 - High Wa										Vegetated Concave Surface				
	A3 - Saturatio									B10 - Drainage					
	B1 - Water M				C2 - Dry S	eason Wa	ter Table	Desta (set til			Rhizospheres on Living Roots (tilled)				
	B2 - Sedimer B3 - Drift Dep				C3 - Oxidiz C4 - Prese	2ed Khizos	spheres on Living	Roots (not till			o Visible on Aerial Imagery				
	B4 - Algal Ma								1						
	B5 - Iron Dep				Other (Exp	olain)			4						
		on Visible on Aerial Im tained Leaves	agery							D7 - Frost-Hea	aved Hummocks (LRR F)				
	B9 - Water-S	tained Leaves													
Field Observ	vations														
Surface Wate			Den	h.,	(in)										
Water Table		_		:h:	_ (in.) (in.)			Wetland H	lydrology	Present?	Y				
Saturation Pr		Yes □ Yes □	•	:h:	(in.) (in.)						—				
			Dept		,										
					-	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks: No primary wetland hydrology indicators present. Wetland hydrology is assumed based on hydrophytic vegetation and landscape position.															
	no prindi y	wettand hydrology	indicators p	resent. wettai	nd hydrolo	gy is ass	sumed based or	n hydrophyt	ic vegetatic	n and landsc	ape position.				
	No prindry	welland hydrology	indicators p	resent. wetta	nd hydrolo	gy is ass	sumed based of	n hydrophyt	ic vegetatic	n and landsc	ape position.				
SOILS		, ,,			-				ic vegetatic	n and landsc	ape position.				
SOILS Profile Descri	iption (Descr	ibe to the depth ne	eded to doc	ument the indi	icator or co	onfirm th	e absence of in	dicators.)	ic vegetatic	n and landsc	ape position.				
SOILS Profile Descri	iption (Descr	, ,,	eded to doc	ument the indi	icator or co	onfirm th	e absence of in	dicators.)	ic vegetatio	n and landsc	ape position.				
SOILS Profile Descri	iption (Descr	ibe to the depth ne	eded to doc	ument the indi	icator or co	onfirm th	e absence of in ore Lining, M=Matr	dicators.)	ic vegetatic	n and landsc	ape position.				
SOILS Profile Descri	iption (Descr	ibe to the depth ne letion, RM=Reduced Ma	eded to doc	ument the indi ed/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	dicators.)	ic vegetatic	n and landsc	ape position.				
SOILS Profile Descri (Type: C=Concer	iption (Descr	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist)	eded to doci atrix, CS=Cover	ument the indi ed/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr	idicators.)		n and landsc	· · ·				
SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descr	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doci atrix, CS=Cover	ument the indi ed/Coated Sand Color (icator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr	idicators.)	Texture	n and landsc	· · ·				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	ption (Descr ntration, D=Depi Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doct atrix, CS=Cover % 10	ument the indi ed/Coated Sand Color (icator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type	idicators.) ix)	Texture SC	n and landsc	· · ·				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	ption (Descr ntration, D=Depi Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doct atrix, CS=Cover % 10	ument the indi ed/Coated Sand Color (icator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type	idicators.) ix)	Texture SC	n and landsc	· · ·				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	ption (Descr ntration, D=Depi Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doct atrix, CS=Cover % 10	ument the indi ed/Coated Sand Color (icator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type	idicators.) ix)	Texture SC	n and landsc	· · ·				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	ption (Descr ntration, D=Depi Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doct atrix, CS=Cover % 10	ument the indi ed/Coated Sand Color (icator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type	idicators.) ix)	Texture SC	n and landsc	· · ·				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26	ption (Descr htration, D=Depi Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eded to doc: atrix, CS=Cover % 10 95	Color (Moist)	Mottle	e absence of in ore Lining, M=Matr es Type	idicators.) ix)	Texture SC	n and landsc	· · ·				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	ption (Descr htration, D=Depi Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eded to doc: atrix, CS=Cover % 10 95	ument the indi ed/Coated Sand Color (Moist)	Mottle	e absence of in ore Lining, M=Matr es Type C	idicators.) ix)	Texture SC C		Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr htration, D=Depi Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eded to doct atrix, CS=Cover % 100 95	Color (Moist)	Mottle	e absence of in ore Lining, M=Matr es Type C	dicators.) ix)	Texture SC C	or Problematic	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1	eded to doci atrix, CS=Cover % 100 95 eck here if in	Color (Color (Hue_7.5YF	Moist) Contraction of the second sec	monfirm th tion: PL=P Mottli %	e absence of in ore Lining, M=Matr es Type C	dicators.) ix) Location M	Texture SC C Indicators 1 A9 - 1 cm M A16 - Coast	for Problematic uck (LRR I, J) Prairie Redox (Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26	ption (Descr tration, D=Depi Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch	eded to doc: atrix, CS=Cover % 10 95 95 95 95 95	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S6 - Stripped F1 - Loamy M	icator or co Grains; Loca Moist) 2 6/8 not presen Redox I Matrix Jucky Miner	mfirm th tion: PL=P Mottl % 5 5 t):	e absence of in ore Lining, M=Matr es Type C	Location M	Texture SC C Indicators 1 A9 - 1 cm M A9 - 1 cm s S7 - Dark S	for Problematiti Vick (LRR I, J) Prairie Redox (urface (LRR G)	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide	eded to doct atrix, CS=Cover % 10 95 95 eck here if in	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy C	icator or co Grains; Loca Moist) C 6/8 C 6	mfirm th tion: PL=P Mottl % 5 5 t):	e absence of in ore Lining, M=Matr es Type C	dicators.) ix) Location M	Texture SC C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Cor Problemation Cor Problemation Unck (LRR I, J) Prairie Redox (Urface (LRR G) Plains Depression	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	it Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A5 - Stratifier A5 - Stratifier	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide Hayers (LRR F)	eded to doci atrix, CS=Cover % 100 95 eck here if in 1 100 95	Color (Color (Hue_7.5YF) S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted	Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	nfirm th tion: PL=P Mottl 5 5 t):	e absence of in ore Lining, M=Matr es Type C	dicators.) ix)	Texture SC C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S S7 - Dark S F16 - High F	Gor Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ced Vertic	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide	eded to doci atrix, CS=Cover % 100 95 95 95 95 95 95 95 95 95 95 95 95 95	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy C	Moist) Moist) Control 6/8 Control 6/8 Co	al	e absence of in ore Lining, M=Matr es Type C	dicators.)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	Cor Problemation Cor Problemation Unck (LRR I, J) Prairie Redox (Urface (LRR G) Plains Depression	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide Layers (LRR FG) tck (LRR FGH) tck (LRR FGH) bark Surface	eded to doct	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy (F3 - Depletec F3 - Depletec F8 - Redox D	icator or co Grains; Loca Moist) 2 6/8 0 6/8 0 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mfirm th tion: PL=P Mottl- 5 5 t):	e absence of in ore Lining, M=Matr es Type C C	dicators.) ix) Location M	Indicators 1 A9 - 1 cm M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression read Vertic Parent Material	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide Layers (LRR F) ick (LRR FGH) ed Below Dark Surface Jark Surface lucky Mineral	eded to doci	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy (F3 - Depletec F3 - Depletec F8 - Redox D	icator or co Grains; Loca Moist) 2 6/8 0 6/8 0 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mfirm th tion: PL=P Mottl- 5 5 t):	e absence of in ore Lining, M=Matr es Type C	dicators.) ix) Location M	Indicators 1 A9 - 1 cm M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	For Problematii For Problematii Wuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio read Vertic arrent Material Shallow Dark S	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifice A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide J Layers (LRR F) tok (LRR FGH) ad Below Dark Surface Jark Surface lucky Mineral Aucky Peat or Peat (LI	eded to doc: atrix, CS=Cover % 100 95 95 eck here if in i i eck here if in i i RR G, H)	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy (F3 - Depletec F3 - Depletec F8 - Redox D	icator or co Grains; Loca Moist) 2 6/8 0 6/8 0 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mfirm th tion: PL=P Mottl- 5 5 t):	e absence of in ore Lining, M=Matr es Type C C	dicators.) ix) Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio red Vertic 'arent Material Shallow Dark S ain in Remarks)	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifice A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) dd Below Dark Surface Jark Surface lucky Mineral Aucky Peat or Peat (LR	eded to doc: atrix, CS=Cover % 100 95 95 eck here if in i i eck here if in i i RR G, H)	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy (F3 - Depletec F3 - Depletec F8 - Redox D	icator or co Grains; Loca Moist) 2 6/8 0 6/8 0 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mfirm th tion: PL=P Mottl- 5 5 t):	e absence of in ore Lining, M=Matr es Type C C	dicators.) ix) Location M	Indicators 1 A9 - 1 cm k A9 - 1 cm k S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio red Vertic 'arent Material Shallow Dark S ain in Remarks)	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifice A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) dd Below Dark Surface Jark Surface lucky Mineral Aucky Peat or Peat (LR	eded to doc: atrix, CS=Cover % 100 95 95 eck here if in i i eck here if in i i RR G, H)	Color (Color (Hue_7.5YF Hue_7.5YF S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy (F3 - Depletec F3 - Depletec F8 - Redox D	icator or co Grains; Loca Moist) 2 6/8 0 6/8 0 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mfirm th tion: PL=P Mottl- 5 5 t):	e absence of in ore Lining, M=Matr es Type C C	dicators.) ix) Location M	Indicators 1 A9 - 1 cm k A9 - 1 cm k S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio zed Vertic 'arent Material Shallow Dark S ain in Remarks)	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifice A3 - Black Hi A4 - Hydroge A5 - Stratifice A1 - Deplete A1 - Deplete A1 - Deplete A1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide d Layers (LRR F) ick (LRR FGH) ed Below Dark Surface lucky Mineral Aucky Peat or Peat (LRF leyed Matrix	eded to doc: atrix, CS=Cover % 100 95 95 eck here if in i i eck here if in i i RR G, H)	Andicators are I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	icator or co Grains; Loca Moist) R 6/8 not presen Redox I Matrix Jucky Miner Gleyed Matria Jucky Miner Gleyed Matria Jucky Miner Gleyed Matria Jucky Miner Sleyed Matria Jucky Miner Sleyed Matria Jucky Miner Sleyed Matria Jucky Miner Sleyed Matria	mfirm th tion: PL=P Mottl- 5 5 t):	e absence of in ore Lining, M=Matr es Type C C	Idicators.) ix) Location M C C C C C C C C C C C C C	Indicators of P Indicators of P A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio zed Vertic 'arent Material Shallow Dark S ain in Remarks)	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide Layers (LRR FGH) ed Below Dark Surface Jark Surface lucky Mineral Aucky Peat or Peat (LR icky Peat or Peat (LR icky Peat or Peat (LR icky Peat or Peat (LR	eded to doci atrix, CS=Cover % 100 95 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97	Ument the indi ed/Coated Sand Color () Hue_7.5YF Hue_7.5YF S6 - Stripped S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F3 - Depleted F6 - Redox D F6 - Redox D F16 - High Pl	icator or co Grains; Loca Moist) 6/8 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	al x sions (ML	e absence of in ore Lining, M=Matr es Type C C C C C C C C C C C C C C C C C C C	dicators.) ix) Location M	Indicators of P Indicators of P A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio zed Vertic 'arent Material Shallow Dark S ain in Remarks)	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr	ption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide d Layers (LRR F) ick (LRR FGH) ed Below Dark Surface lucky Mineral Aucky Peat or Peat (LRF leyed Matrix	eded to doci atrix, CS=Cover % 100 95 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97	Ument the indi ed/Coated Sand Color () Hue_7.5YF Hue_7.5YF S6 - Stripped S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F3 - Depleted F6 - Redox D F6 - Redox D F16 - High Pl	icator or co Grains; Loca Moist) 6/8 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	al x sions (ML	e absence of in ore Lining, M=Matr es Type C C C C C C C C C C C C C C C C C C C	Idicators.) ix) Location M C C C C C C C C C C C C C	Indicators of P Indicators of P A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio zed Vertic 'arent Material Shallow Dark S ain in Remarks)	Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-26 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 4/1 Indicators (ch bipedon stic n Sulfide Layers (LRR FGH) ed Below Dark Surface Jark Surface lucky Mineral Aucky Peat or Peat (LR icky Peat or Peat (LR icky Peat or Peat (LR icky Peat or Peat (LR	eded to doci atrix, CS=Cover % 100 95 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97	Ument the indi ed/Coated Sand Color () Hue_7.5YF Hue_7.5YF S6 - Stripped S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F3 - Depleted F6 - Redox D F6 - Redox D F16 - High Pl	icator or co Grains; Loca Moist) 6/8 6/8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	al x sions (ML	e absence of in ore Lining, M=Matr es Type C C C C C C C C C C C C C C C C C C C	Idicators.) ix) Location M C C C C C C C C C C C C C	Indicators of P Indicators of P A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio zed Vertic 'arent Material Shallow Dark S ain in Remarks)	Remarks				

WETLAND DETERMINATION DATA FORM

Great Plains Region

Operational subject of a subject of	Project/Site:	L3R				Sample Point: w-151n42w9-g3			
Time Sector Derivative Instance Test Worksheet 1. Anyter remains 50 Y FAG 3.									
Space base Society Designation Model 1 Provide messades 6 (A) 4			e non-native	e species.)					
1. Provide remulative 0 Y FAC 2.	Tree Stratum		% Cover	Dominant	Ind Statue	Dominance Test Worksheet			
2.	1.								
3.						Number of Dominant Species that are OBL, FACW, or FAC: 8 (A)			
4.						()			
5. Prevent of Dominant Species That Are OBL FACW, or FAC: 102.03% (AB) 7. Total Cover =						Total Number of Dominant Species Across All Strata: 8 (B)			
7.						()			
7.	6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
9.	7.								
10. Total Cover =	8.					Prevalence Index Worksheet			
Total Cover 50 FACW spc. 20 2 100 1 Covers acces 23 Y FACW FACW <t< td=""><td>9.</td><td></td><td></td><td></td><td></td><td>Total % Cover of: Multiply by:</td></t<>	9.					Total % Cover of: Multiply by:			
Sageing Struck FAC Spp 71 X 3 = 225 1 Correr arbs 20 Y FAC Spp 0 X 5 = 0 2. Correr arbs 20 Y FAC Spp 0 X 5 = 0 3. Satir helmonia 20 Y FAC Spp 0 X 5 = 0 4. Image: Spp Image: Spp X 5 = 0 Image: Spp X 5 = 0 4. Image: Spp Image: Spp X 5 = 0 Image: Spp X 5 = 0 4. Image: Spp Image: Spp X 5 = 0 Image: Spp X 5 = 0 7. Image: Spp Image: Spp Image: Spp X 5 = 0 Image: Spp	10.					OBL spp. <u>35</u> x 1 = <u>35</u>			
SapingShrub Stratum (Piot size: 15 f. radius)		Total Cover =	50			FACW spp. 80 x 2 = 160			
1. Orma means 25 Y FACW 2. Orma means 20 Y FACW 3. Satin backbane 20 Y FACW 4.						FAC spp. 75 x 3 = 225			
2 Conver semission 20 Y FACW 3. Soft it betwins a 20 Y FACW 5.	Sapling/Shrub	Stratum (Plot size: 15 ft. radius)							
3. Sale bebalance 20 Y FACW 4.		Cornus alba	25			UPL spp. 0 x 5 = 0			
4.		Cornus racemosa							
5. Prevalence Index = BIA =2211		Salix bebbiana	20	Y	FACW	Total <u>190</u> (A) <u>420</u> (B)			
6.									
7.	-					Prevalence Index = B/A = 2.211			
8.		<u> </u>							
9.									
10. Total Cover =									
Total Cover =									
Herb Stratum (Plot size: 5 ft. radius)	10.								
Herb Stratum (Plot size: 5 ft, radius)		I otal Cover =	65	_					
1. Cateral accustors 20 Y FACW * Indicators of hydric soll and wetland hydrology must be present, unless disturbed or problematic. 3. Carrex points 15 Y OBL * Indicators of hydric soll and wetland hydrology must be present, unless disturbed or problematic. 4. Rubus pubsecens 15 Y FACW FACW 5. Petasiles frigida 5 N FAC 6									
2. Carex iscustris 20 Y OBL * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 3. Carex plitta 15 Y OBL present, unless disturbed or problematic. 4. Rubus pubscomes 5 N FAC 6 5 N FAC 7. 6			20	V	EAC)M	Problem Hydrophytic Vegetation (Explain) *			
3. Carex pelita 15 Y OBL present, unless disturbed or problematic. 4. Rubus publescens 15 Y FACW Definitions of Vegetation Strata: 5. Presents trigidus 5 N FAC FACW Definitions of Vegetation Strata: 7.						* Indicators of hydric soil and wetland hydrology must be			
3. Rebue publicements 13 1 CALL 4. Rubue publicements 15 Y FACW 6. 5 N FAC 6.									
5. Petrasites trigidus 5 N FAC 6						Definitions of Vegetation Strate:			
6 7. 8. 9. 10. 11. 12. 13. 14. 15. Total Cover =						Deminions of Vegetation Strata.			
7			5	IN	TAU	Tree - Weedunlante 2 in (7 Com) as more in diameter at breast			
8. 9. 10. 11. 12. 13. 14. 15. Total Cover =						height (DBH), regardless of height.			
9					-				
10.						Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
11. 12. 13. 14. 15. Total Cover =75 Woody Vines International Cover =75 Woody Vines Stratum (Plot size: 30 ft. radius) 1. 2. 3. 4. Total Cover =0 Hydrophytic Vegetation Present? Y									
12.									
14. 15. Total Cover =	12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
14. 15. Total Cover =									
15. Woody Vines - All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius) Hydrophytic Vegetation Present? Y 1. Hydrophytic Vegetation Present? Y 5. Total Cover = 0 Remarks: The wetland is dominated by quaking aspen.		[]							
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = 0 Remarks: The wetland is dominated by quaking aspen.						Woody Vines - All woody vines, regardless of height.			
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = 0 Remarks: The wetland is dominated by quaking aspen.		Total Cover =	75						
1. 2. 3. 5. 4. Total Cover = 0 Remarks: The wetland is dominated by quaking aspen.									
2	Woody Vine St	ratum (Plot size: 30 ft. radius)							
3. Hydrophytic Vegetation Present? Y 5.									
5.									
4. Total Cover = 0 Remarks: The wetland is dominated by quaking aspen.						Hydrophytic Vegetation Present? Y			
Total Cover = 0 Remarks: The wetland is dominated by quaking aspen.		<u> </u>							
Remarks: The wetland is dominated by quaking aspen.	4.								
Additional Remarks:	Remarks:	The wetland is dominated by quaking aspen.							
Additional Remarks:									
Additional Remarks:									
	Additional Remarks:								