## WETLAND DETERMINATION DATA FORM Great Plains Region

											-	
Project/Site:		L3R									Date:	09/17/14
Applicant:	Enbridge										County:	Pennington
Investigators						Subregio	n (MLRA	or LRR): MLRA 56			State:	MN
Soil Unit:	153A						Classification:			1		
Landform:	Dip					cal Relief:					Sample Point	w-154n44w32-h1
	3 - 7% Latitude: 4							711	Deture			
Slope (%):		aditions on the sit				Longitude:			Datum:			
Are climatic/i		nditions on the site				Ir? (If no, exp	1		☑ Yes	□ No	Section:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	⊏signific	cantly	disturbed?		Are	e normal circum	istances pro	esent?	Township:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	Daturall	ly prob	olematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY C				<b>y</b> 1							0	
Hydrophytic '				Yes					Hydric Soi	Is Present?	Voc	
	•		—									
Wetland Hyd				Yes	-						t Within A W	etland? Yes
Remarks:	The wetland	l is a sedge mead	ow domir	nated I	by wheat see	dge with a	ı fringe o	of lake sedge an	d clasping	dogbane.		
HYDROLOG	V											
Wetland Hy	drology Ind	i <b>cators</b> (Check all	l that appl	ly; Mir	nimum of one	e primary	or two se	econdary requir	ed):			
Primary	<u>.</u>									Secondary:		
	A1 - Surface	Nater				B11 - Salt	Crust				B6 - Surface S	Soil Cracks
						B13 - Aqua	atic Fauna	l			B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturatio	n				C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage	e Patterns
	B1 - Water Mater	arks				C2 - Dry S					C3 - Oxidized	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits				C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till	le 🗆	C8 - Crayfish E	
	B3 - Drift Dep	osits						duced Iron	,			n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M	Auck Surfa	ace		$\checkmark$	D2 - Geomorp	<b>U</b> .
	B5 - Iron Dep					Other (Exp					D5 - FAC-Neu	
		n Visible on Aerial Im	nagerv		—	····P	,					aved Hummocks (LRR F)
	B9 - Water-St		- <u>-</u>									,
Field Observ												
Surface Wat	er Present?	Yes 🗆	[	Depth:		(in.)			Watland L	Judrology	Dracant?	Y
Water Table	Present?	Yes 🗆	I	Depth:		(in.)			wettand r	lydrology	Present?	Ť
Saturation P		Yes 🗆		Depth:		(in.)						—
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	olueu Dala (s	sileam gauge, mon	itoring wei	n, aena	ai photos, pre	evious insp	pections),	if available:				
	,		<u> </u>			•			ased on the	e geomorph	ic position an	d hydrophytic vegetation
Remarks:	No primary		<u> </u>			•			ased on the	e geomorph	ic position an	d hydrophytic vegetation
Remarks:	,		<u> </u>			•			ased on the	e geomorph	ic position an	d hydrophytic vegetation
Remarks: SOILS	No primary present.	wetland hydrology	indicator	rs wer	e observed.	Wetland	hydrolog	y is assumed b		e geomorph	ic position an	d hydrophytic vegetation
Remarks: <b>SOILS</b> Profile Descri	No primary present. ption (Descri	wetland hydrology	v indicator	rs wer	e observed.	Wetland	hydrolog	y is assumed by e absence of in	dicators.)	e geomorph	ic position an	d hydrophytic vegetation
Remarks: <b>SOILS</b> Profile Descri	No primary present. ption (Descri	wetland hydrology	v indicator	rs wer	e observed.	Wetland	hydrolog	y is assumed by e absence of in	dicators.)	e geomorph	ic position an	d hydrophytic vegetation
Remarks: <b>SOILS</b> Profile Descri	No primary present. ption (Descri	wetland hydrology	v indicator	rs wer	e observed.	Wetland	hydrolog	y is assumed by e absence of in	dicators.)	e geomorph	ic position an	d hydrophytic vegetation
Remarks: <b>SOILS</b> Profile Descri	No primary present. ption (Descri	wetland hydrology	v indicator	rs wer	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri	dicators.)	e geomorph	ic position an	d hydrophytic vegetation
Remarks: SOILS Profile Descri (Type: C=Concer	No primary present. ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix	v indicator	docum	e observed. nent the india /Coated Sand C	Wetland cator or co Grains; Loca	hydrolog onfirm th tion: PL=P Mottle	y is assumed by e absence of in ore Lining, M=Matri	dicators.) ×)		ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	v indicator	docum	e observed.	Wetland cator or co Grains; Loca	hydrolog onfirm the tion: PL=P	y is assumed by e absence of in ore Lining, M=Matri	dicators.)	e geomorph	ic position an	d hydrophytic vegetation Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary present. ption (Descri ntration, D=Deple Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	v indicator	docum covered/ % 100	e observed. nent the indic /Coated Sand C Color (N	Wetland	hydrolog onfirm the tion: PL=P Mottle	y is assumed ba e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture C	ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	v indicator	docum covered/ % 100	e observed. nent the india /Coated Sand C	Wetland cator or co Grains; Loca	hydrolog onfirm th tion: PL=P Mottle	y is assumed by e absence of in ore Lining, M=Matri	dicators.) ×)		ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary present. ption (Descri ntration, D=Deple Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	v indicator	docum covered/ % 100	e observed. nent the indic /Coated Sand C Color (N	Wetland	hydrolog onfirm the tion: PL=P Mottle	y is assumed ba e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture C	ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary present. ption (Descri ntration, D=Deple Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	v indicator	docum covered/ % 100	e observed. nent the indic /Coated Sand C Color (N	Wetland	hydrolog onfirm the tion: PL=P Mottle	y is assumed ba e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture C	ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary present. ption (Descri ntration, D=Deple Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	v indicator	docum covered/ % 100	e observed. nent the indic /Coated Sand C Color (N	Wetland	hydrolog onfirm the tion: PL=P Mottle	y is assumed ba e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture C	ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary present. ption (Descri ntration, D=Deple Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	v indicator	docum covered/ % 100	e observed. nent the indic /Coated Sand C Color (N	Wetland	hydrolog onfirm the tion: PL=P Mottle	y is assumed ba e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture C	ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary present. ption (Descri ntration, D=Deple Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	v indicator	docum covered/ % 100	e observed. nent the indic /Coated Sand C Color (N	Wetland	hydrolog onfirm the tion: PL=P Mottle	y is assumed ba e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture C	ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No primary present. ption (Descrintration, D=Deple Hue_10YR Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eeded to c	docum covered/ % 100 80	e observed.	Wetland cator or co Grains; Loca Moist) <u>6/3</u>	hydrolog onfirm the tion: PL=P Mottle %	y is assumed ba e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture C	ic position an	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No primary present. ption (Descri ntration, D=Deple Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eeded to c	docum covered/ % 100 80	e observed. nent the indic /Coated Sand C Color (N	Wetland cator or co Grains; Loca Moist) <u>6/3</u>	hydrolog onfirm the tion: PL=P Mottle %	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location	Texture C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eeded to c	docum covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog onfirm the tion: PL=P Mottle %	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) x) Location M	Texture C C Indicators f	or Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch	eeded to c	docum covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog onfirm the tion: PL=P Mottle %	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C C Indicators f A9 - 1 cm M	or Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch	eeded to c	docum covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast	or Problematic luck (LRR I, J) Prairie Redox (	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon	eeded to c	docum covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G)	<u>Remarks</u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide	eeded to c	covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon	eeded to c	covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	<u>Remarks</u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide	eeded to c	docum covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) x) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	<u>Remarks</u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to c atrix, CS=C	docum covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to c atrix, CS=C	covered/ % 100 80 e if indi	e observed.	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to c atrix, CS=C	docum covered/ % 100 80 e if indi	e observed. nent the india /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	Wetland	hydrolog	y is assumed by	dicators.) x) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present.	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	e e e e e e indicator	docum covered/ % 100 80 e if indi	e observed. nent the india /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	Wetland	hydrolog	y is assumed by e absence of in ore Lining, M=Matri es Type C	dicators.) x) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present. ption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfact ark Surface ucky Mineral lucky Peat or Peat (L	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the india /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	Wetland	hydrolog	y is assumed by	dicators.) x) Location M	Texture C C C M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	intervention         intervention	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present. ption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_10YR Athenations Ath	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfact ark Surface ucky Mineral lucky Peat or Peat (LR	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the india /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	Wetland	hydrolog	y is assumed by	dicators.) x) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	intervention         intervention	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present. ption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfact ark Surface ucky Mineral lucky Peat or Peat (LR	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the india /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	Wetland	hydrolog	y is assumed by	dicators.) x) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present. ption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_10YR Athenations Ath	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfact ark Surface ucky Mineral lucky Peat or Peat (LR	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the india /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	Wetland	hydrolog	y is assumed by	dicators.) x) Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary present. ption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mur S3 - 5 cm Mur S4 - Sandy G	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR keyed Matrix	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the indic /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da F16 - High Pla	Wetland	hydrolog	e absence of in ore Lining, M=Matri	dicators.) x) Location M	Texture         C         C         C         A9 - 1 cm M         A16 - Coast         S7 - Dark S         F16 - High F         F18 - Reduct         TF2 - Red F         TF12 - Very         Other (Explate <sup>1</sup> Indicators of F         unless disturbet	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr NRCS Hydr U U U U U U U U U U U U	No primary present. ption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR keyed Matrix	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the india /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	Wetland	hydrolog	y is assumed by	dicators.) x) Location M	Texture         C         C         C         A9 - 1 cm M         A16 - Coast         S7 - Dark S         F16 - High F         F18 - Reduct         TF2 - Red F         TF12 - Very         Other (Explate <sup>1</sup> Indicators of F         unless disturbet	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary present. ption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_10YR At- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mur S3 - 5 cm Mur S4 - Sandy G	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR keyed Matrix	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the indic /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da F16 - High Pla	Wetland	hydrolog	e absence of in ore Lining, M=Matri	dicators.) x) Location M	Texture         C         C         C         A9 - 1 cm M         A16 - Coast         S7 - Dark S         F16 - High F         F18 - Reduct         TF2 - Red F         TF12 - Very         Other (Explate <sup>1</sup> Indicators of F         unless disturbet	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr NRCS Hydr Restrictive Layer	No primary present. ption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR Hue_10YR At- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mur S3 - 5 cm Mur S4 - Sandy G	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	e e RR G, H)	docum covered/ % 100 80 e if indi	e observed. nent the indic /Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da F16 - High Pla	Wetland	hydrolog	e absence of in ore Lining, M=Matri	dicators.) x) Location M	Texture         C         C         C         A9 - 1 cm M         A16 - Coast         S7 - Dark S         F16 - High F         F18 - Reduct         TF2 - Red F         TF12 - Very         Other (Explate <sup>1</sup> Indicators of F         unless disturbet	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w32-h1
		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>opecies marrie</u>	<u>78 COVEL</u>	Dominant	<u>mu.status</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.	J				Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>100.0%</b> (A/B)
7.					
8.	· · · · · · · · · · · · · · · · · · ·				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $95$ x 1 = $95$
	Total Cover =	0			FACW spp. 0 $x 2 = 0$
	-		OBL spp.       95       x 1 =       95         FACW spp.       0       x 2 =       0         FAC spp.       5       x 3 =       15         FACU spp.       0       x 4 =       0		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total <u>100</u> (A) <u>110</u> (B)
4.					
5.					Prevalence Index = $B/A = $ <b>1.100</b>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Tatal Osuar	0			X Dominance Test is > 50%
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *
1.	Carex atherodes	85	I	OBL	
2.	Carex lacustris	10	N	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Apocynum cannabinum	5	N	FAC	
<u>4.</u> 5.					Definitions of Vegetation Strata:
<u> </u>					
7.					<b>Tree -</b> 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.	<u></u>				
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.		-			
	Total Cover =	0			
Remarks:	The wetland vegetation is dominated by whea	at sedge w	ith a fringe	e of lake s	sedge and indian hemp.
Additional F	Remarks:				