## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date:	09/30/14		
Applicant: Enbridge							County: State:	Red Lake					
	Investigators: NTT/BEH			Subregion (MLRA or LRR): MLRA 56 NWI Classification:							MN		
Soil Unit:													
Landform:	Depression				cal Relief:		554	Determ		Sample Point	w-151n42w5-c1		
Slope (%):       3 - 7%       Latitude:       47.928565       Longitude:       -96.061551       Datum:         Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)       Image: Climatic (Angelian in remarks)       Image: Climatic (Angelian in remarks)       Section:													
					di? (If no, exp		arks) e normal circun			Section:			
Are Vegetatio		G or Hydrology				Alt	e normai circuit ⊡ Yes		esent	Township:	Dire		
Are Vegetation  Soil  or Hydrology  Atturally problematic?  Yes  No  Range: Dir: Dir:													
Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes													
				Yes			Is This Sampling Poin				etland? Yes		
Remarks:				ocated within	a planted	sovbear	n field A mix of					int	
Remarks: The wetland is a seasonally flooded basin located within a planted soybean field. A mix of weedy plant species are present throughout with cattails and blunt spike-rush.													
HYDROLOG													
		instars (Chask all	that apply: N	inimum of on	o primon/	or two o	ocondors ( roqui	rod).					
Primary		icators (Check all	i that apply, iv		e primary	OF LWO S	econdary requi	reu).	Secondary:				
A1 - Surface Water					B11 - Salt	Crust			Secondary.				
					B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturatio			<ul> <li>C1 - Hydrogen Sulfide Od</li> <li>C2 - Dry Season Water T</li> </ul>							B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B1 - Water M B2 - Sedimen						spheres on Living	Roots (not till	, D	C8 - Crayfish I		eu)	
	B3 - Drift Dep				C4 - Prese			110010 (1101 1			Nisible on Aerial Imagery		
	B4 - Algal Ma			_	C7 - Thin M		ace			D2 - Geomorp			
	B5 - Iron Dep	osits on Visible on Aerial Im	aden		Other (Exp	lain)				D5 - FAC-Neu	tral Test aved Hummocks (LRR F)		
	B9 - Water-St		lagery						-	D7 - FIOSI-HEA	aved Hummocks (LKK F)		
_													
Field Obser	vations:												
Surface Wat	er Present?	Yes 🛛	Dept		(in.)								
Water Table		Yes 🔲						Wetland H	lydrology	Present?	Y		
Saturation P	resent?	Yes 🛛	Depti		(in.)							1	
Describe Rec	orded Data (s	stroom gougo moni											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary wetland hydrology indicators are present. Wetland hydrology is assumed based on surface soil cracks and landscape position.													
			-			-		ad on surfac		ve and lander	ane position		
Remarks:			-			-		ed on surfac	e soil crack	ks and landso	ape position.		
Remarks:			-			-		ed on surfac	ce soil crack	ks and landsc	ape position.		
Remarks: SOILS	No primary		indicators ar	e present. Wo	etland hyd	rology is	assumed base		ce soil crack	ks and landsc	ape position.		
Remarks: SOILS Profile Descri	No primary	wetland hydrology	v indicators ar	e present. We ment the indi	etland hyd	rology is	assumed base the absence of ir	dicators.)	ce soil crack	ks and landsc	ape position.		
Remarks: SOILS Profile Descri	No primary	wetland hydrology ibe to the depth ne etion, RM=Reduced Ma	v indicators ar	e present. We ment the indi	etland hyd	onfirm th	assumed base the absence of in fore Lining, M=Matr	dicators.)	ce soil crack	ks and landsc	ape position.		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix	eeded to docu	ment the indi	etland hyd cator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of in Prote Lining, M=Matr	ndicators.) ix)		ks and landsc			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere %	e present. We ment the indi d/Coated Sand Color (	etland hyd cator or co Grains; Loca	onfirm th	assumed base the absence of in fore Lining, M=Matr	dicators.)	Texture	ks and landsc	ape position. Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covers % 100	e present. We ment the indi	etland hyd cator or co Grains; Loca Moist)	rology is onfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es	ix)	Texture C	ks and landsc			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere %	e present. We ment the indi d/Coated Sand Color (	etland hyd cator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of in Prote Lining, M=Matr	ndicators.) ix)	Texture	ks and landsc			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covers % 100	e present. We ment the indi	etland hyd cator or co Grains; Loca Moist)	rology is onfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es	ix)	Texture C	ks and landsc			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covers % 100	e present. We ment the indi	etland hyd cator or co Grains; Loca Moist)	rology is onfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es	ix)	Texture C	ks and landsc			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covers % 100	e present. We ment the indi	etland hyd cator or co Grains; Loca Moist)	rology is onfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es	ix)	Texture C	<s and="" landsc<="" td=""><td></td><td></td></s>			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	No primary ption (Descri tration, D=Depi Hue_10YR Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1	v indicators ar eeded to docu atrix, CS=Covere % 100 85	e present. We ment the indi d/Coated Sand Color ( Hue_10YR	etland hyd cator or cc Grains; Loca Moist) 6/8	rology is ponfirm th tion: PL=P Mottle % 15	e absence of ir rore Lining, M=Matr es Type C	ix)	Texture C	ks and landsc			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	No primary ption (Descri tration, D=Depi Hue_10YR Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1	eeded to docu atrix, CS=Covers % 100	e present. We ment the indi d/Coated Sand Color ( Hue_10YR	etland hyd cator or cc Grains; Loca Moist) 6/8	rology is ponfirm th tion: PL=P Mottle % 15	e absence of ir ore Lining, M=Matr es	ix)	C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descri- ntration, D=Depi Hue_10YR Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1	v indicators ar eeded to docu atrix, CS=Covere % 100 85 85 eeck here if in	e present. Wi	etland hyd cator or co Grains; Loca Moist) 6/8 6/8	rology is ponfirm th tion: PL=P Mottle % 15	e absence of ir rore Lining, M=Matr es Type C	Location M	Texture C C	for Problemati	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descrintration, D=Depl Hue_10YR Hue_10YR ic Soil Field A1- Histosol	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r indicators ar eeded to docu atrix, CS=Covered % 100 85 	e present. Wi	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 not presen edox	rology is ponfirm th tion: PL=P Mottle % 15	e absence of ir rore Lining, M=Matr es Type C	Location M	Texture C C Indicators f A9 - 1 cm M	for Problematic	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_20YR Hue	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon	r indicators ar eeded to docu atrix, CS=Covere % 100 85 neck here if in	e present. Wi ment the indi d/Coated Sand Color ( Hue_10YR dicators are r	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 not presen edox Matrix	rology is onfirm th tion: PL=P Mottle % 15 15 t):	e absence of ir rore Lining, M=Matr es Type C	Location	Texture C C Indicators 1 A9 - 1 cm M	for Problematii luck (LRR I, J)	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descrintration, D=Depl Hue_10YR Hue_10YR ic Soil Field A1- Histosol	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 10 10 10 10 10 10 10 10 10 10 10 10 10	v indicators ar eeded to docu atrix, CS=Covere % 100 85 	e present. Wi	etland hyd cator or cc Grains; Loca Moist) 6/8 6/8 not presen edox Matrix fucky Miner	rology is ponfirm th tion: PL=P Mottle % 15 15 t):	e absence of ir rore Lining, M=Matr es Type C	Location M	Texture C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si	for Problematii Luck (LRR I, J) Prairie Redox urface (LRR G)	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge A5 - Stratified	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	r indicators ar eeded to docu atrix, CS=Covere % 100 85 85 eeck here if in	e present. Wi	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 000 presen edox Matrix Mucky Miner. Eleyed Matrii Matrix	rology is onfirm th tion: PL=P Mottle 15 15 t): al x	e absence of ir rore Lining, M=Matr es Type C	Location M	Texture C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S S7 - Dark S F16 - High F	for Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr U U U U U U U U U U U U U	No primary ption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Goil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	r indicators ar	e present. Wi ment the indi d/Coated Sand · Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 edox Matrix ucky Miner: Sleyed Matri uktrix ark Surface	rology is ponfirm th tion: PL=P Mottle 15 15 t): al	e absence of ir rore Lining, M=Matr es Type C	Idicators.)	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi zed Vertic Parent Material	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr RCS Hydr	No primary ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to docu atrix, CS=Covere % 100 85 neck here if in	e present. Wi ment the indi d/Coated Sand i Color (i Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F6 - Redox D	etland hyd cator or cc Grains; Loca Moist) 6/8 6/8 not presen edox Matrix fucky Miner. Bleyed Matri I Matrix ark Surface I Dark Surfa	rology is ponfirm th tion: PL=P Mottle 15 15 t): al	e absence of ir rore Lining, M=Matr es Type C	Location M	Texture C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF2 - Very	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio ced Vertic 2arent Material Shallow Dark S	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr NRCS Hydr U	No primary ption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Goil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 	eeded to docu atrix, CS=Covere % 100 85 eek here if in	e present. Wi ment the indi d/Coated Sand 1 Color (1 Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped S6 - Stripped F1 - Loamy N F2 - Loamy Q F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	rology is ponfirm th tion: PL=P Mottle % 15 15 15 15 15 15 15 15 15 15	e absence of ir rore Lining, M=Matr es Type C	Idicators.) ix) Location M	Texture C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF2 - Very	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi zed Vertic Parent Material	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr RCS Hydr U U U U U U U U U U U U U	No primary ption (Descri- ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratfied A9 - 1 cm Mu 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 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LI	eeded to docu atrix, CS=Covere % 100 85 	e present. Wi ment the indi d/Coated Sand 1 Color (1 Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped S6 - Stripped F1 - Loamy N F2 - Loamy Q F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	rology is ponfirm th tion: PL=P Mottle % 15 15 15 15 15 15 15 15 15 15	e absence of ir ore Lining, M=Matr es Type C C	Idicators.) ix) Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S S7 - Dark S F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematic for Problematic fuck (LRR I, J) Prairie Redox i urface (LRR G) Plains Depression Plains Depression Parent Material Shallow Dark S ain in Remarks)	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr NRCS Hydr U	No primary ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF	eeded to docu atrix, CS=Covere % 100 85 	e present. Wi ment the indi d/Coated Sand 1 Color (1 Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped S6 - Stripped F1 - Loamy N F2 - Loamy Q F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	rology is ponfirm th tion: PL=P Mottle % 15 15 15 15 15 15 15 15 15 15	e absence of ir ore Lining, M=Matr es Type C C	Idicators.) ix) Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressia zed Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks	ent,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr RCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratfied A9 - 1 cm Mu 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 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF	eeded to docu atrix, CS=Covere % 100 85 	e present. Wi ment the indi d/Coated Sand 1 Color (1 Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped S6 - Stripped F1 - Loamy N F2 - Loamy Q F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	rology is ponfirm th tion: PL=P Mottle % 15 15 15 15 15 15 15 15 15 15	e absence of ir ore Lining, M=Matr es Type C C	Idicators.) ix) Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematic for Problematic fuck (LRR I, J) Prairie Redox i urface (LRR G) Plains Depression Plains Depression Parent Material Shallow Dark S ain in Remarks)	Remarks	ent,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF leyed Matrix	eeded to docu atrix, CS=Covere % 100 85 	e present. Wi ment the indi d/Coated Sand i Color (i Hue_10YR Hue_10YR Hue_10YR Glass Sandy R S5 - Sandy R S5 - Sandy R S5 - Sandy R S6 - Stripped F3 - Loamy N F4 - Loamy N F5 - Depletec F6 - Redox D F6 - Redox D F6 - Redox D F6 - High Pl	etland hyd cator or cc Grains; Loca Moist) 6/8 6/8 not presen edox Matrix Mucky Miner. Sleyed Matri I Matrix ark Surface I Dark Surfa epressions ains Depres	rology is ponfirm th tion: PL=P Mottle % 15 15 15 15 15 15 15 15 15 15	e absence of ir tore Lining, M=Matr es Type C C RA 72, 73 of LRF	Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressia zed Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks	ent,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr NRCS Hydr U	No primary ption (Descri- tration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF leyed Matrix	eeded to docu atrix, CS=Covere % 100 85 	e present. Wi ment the indi d/Coated Sand 1 Color (1 Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped S6 - Stripped F1 - Loamy N F2 - Loamy Q F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	etland hyd cator or cc Grains; Loca Moist) 6/8 6/8 not presen edox Matrix Mucky Miner. Sleyed Matri I Matrix ark Surface I Dark Surfa epressions ains Depres	rology is ponfirm th tion: PL=P Mottle % 15 15 15 15 15 15 15 15 15 15	e absence of ir tore Lining, M=Matr es Type C C RA 72, 73 of LRF	Idicators.) ix) Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressia zed Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks	ent,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr Restrictive Layer	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge 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 r Type:	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide 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	eeded to docu atrix, CS=Covere % 100 85 85 e e c c c c c c c c c c c c c c c c c	e present. Wi ment the indi d/Coated Sand I Color (I Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped S5 - Sandy R S6 - Stripped S7 - Loamy G F3 - Depletec F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F8 - High Pl F8 - High Pl	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	rology is ponfirm th tion: PL=P Mottle 15 15 t): al x sce score scores (ML	e absence of ir tore Lining, M=Matr es Type C C RA 72, 73 of LRF	Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressia zed Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks	ent,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 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_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge 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 r Type:	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF leyed Matrix	eeded to docu atrix, CS=Covere % 100 85 85 e e c c c c c c c c c c c c c c c c c	e present. Wi ment the indi d/Coated Sand I Color (I Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped S5 - Sandy R S6 - Stripped S7 - Loamy G F3 - Depletec F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F8 - High Pl F8 - High Pl	etland hyd cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	rology is ponfirm th tion: PL=P Mottle 15 15 t): al x sce score scores (ML	e absence of ir tore Lining, M=Matr es Type C C RA 72, 73 of LRF	Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressia zed Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks	.ent,	

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-151n42w5-c1			
VEGETATIO	N (Species identified in all uppercase an (Plot size: 30 ft. radius)	re non-native	species.)					
The official in (	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)			
3.								
<u>4.</u> 5.					Total Number of Dominant Species Across All Strata: 2 (B)			
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 90 x 1 = 90			
	Total Cover =	0	_		FACW spp. 10 x 2 = 20			
					FAC spp. 0 $x 3 = 0$			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$			
1. 2.					UPL spp. 0 x 5 = 0			
3.					Total 100 (A) 110 (B)			
5.					Prevalence Index = B/A = 1.100			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius) Gratiola neglecta	45	Y	OPI	Problem Hydrophytic Vegetation (Explain) *			
1. 2.	Eleocharis obtusa	45 25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Rorippa palustris	10	N	OBL	present, unless disturbed or problematic.			
4.	Persicaria maculosa	10	N	FACW	Definitions of Vegetation Strata:			
5.	Typha angustifolia	10	N	OBL				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11. 12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
12.								
13.								
14.	,				Woody Vines - All woody vines, regardless of height.			
	Total Cover =	100						
	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3. 5.	<u> </u>				Hydrophytic Vegetation Present? Y			
5. 4.	I							
	Total Cover =	0						
Remarks:	The wetland vegetation is dominated by clar		-hyssop a	nd blunt s	pike-rush.			
Additional Remarks:								