WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date:	09/27/14	
Applicant: Enbridge										County:	Red Lake	
Investigators: NTT/BEH				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	Jnit: <u>I38A</u> NWI Classification:											
	Depression				cal Relief: (Sample Point:	w-152n42w30-b1	
Slope (%):	16 - 25%		Latitude: 47.9		Longitude: -			Datum:				
		nditions on the site			ar? (If no, expla					Section:		
Are Vegetatio	on L Soil				normal circumstances present?		esent?	Township:				
Are Vegetatio		C or Hydrology	Laturally pr	oblematic?			Yes	□No		Range:	Dir:	
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
				Yes			Hydric Soils Present? Yes					
Remarks:							Is This Sampling Point Within A Wetland? Yes					
Remarks: The wetland is a fresh wet meadow that has been mowed and is located within a roadside ditch and dominated by reed canary grass and woolly sedge.												
HYDROLOG	v											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
Primary:	A1 - Surface \		П	B11 - Salt C	rust	<u>Secondary:</u>			B6 - Surface S	oil Cracks		
	A2 - High Wat				B13 - Aquati					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio				en Sulfide				B10 - Drainage Patterns			
	B1 - Water Ma B2 - Sedimen			C2 - Dry Season Water Table C3 - Oxidized Rhizospheres on Living Roots (not till C3 - Oxidized Rhizospheres on Living Roots (not till C6 - Cravfish							Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidize C4 - Presen					C9 - Saturation	Nisible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin Mu				1	D2 - Geomorpl	nic Position	
	B5 - Iron Depe				Other (Expla	ain)				D5 - FAC-Neut		
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Ima	agery							D7 - Frost-Hea	ved Hummocks (LRR F)	
	D9 - Waler-Si	amed Leaves										
Field Observ	vatione											
	er Present?	Yes 🔲	Dont	ь.	(in.)							
Water Table		Yes	Dept	:h: :h:	(in.)			Wetland H	lydrology I	Present?	Y	
Saturation Present? Yes Depth: (in.)												
					,							
		stream gauge, monif	-		evious inspe							
Describe Reco Remarks:		tream gauge, monit wetland hydrology	-		evious inspe			n landscape	e position ar	nd hydrophytio	c vegetation.	
Remarks:			-		evious inspe			n landscape	position ar	nd hydrophytio	c vegetation.	
Remarks: SOILS	No primary	wetland hydrology	indicators p	resent. Wetlar	evious inspe nd hydrolog	ıy is assu	imed based or	-	e position ar	nd hydrophytio	c vegetation.	
Remarks: SOILS Profile Descri	No primary		eded to docu	resent. Wetlar ument the indi	evious inspe nd hydrolog cator or cor	ly is assu	absence of in	dicators.)	e position ar	nd hydrophytio	c vegetation.	
Remarks: SOILS Profile Descri	No primary	wetland hydrology be to the depth ne	eded to docu	resent. Wetlar ument the indi	evious inspe nd hydrolog cator or cor	ly is assu	absence of in	dicators.)	position ar	nd hydrophytia	c vegetation.	
Remarks: SOILS Profile Descri	No primary	wetland hydrology be to the depth ne	eded to docu	resent. Wetlar ument the indi	evious inspe nd hydrolog cator or cor	ly is assu	amed based or absence of in re Lining, M=Matr	dicators.)	position ar	nd hydrophytie	c vegetation.	
Remarks: SOILS Profile Descri	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma	eded to docu	ument the indi	evious inspe nd hydrolog cator or cor Grains; Locatio	nfirm the	amed based or absence of in re Lining, M=Matr	dicators.)	position ar	nd hydrophytic	c vegetation. Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix	indicators preded to docu atrix, CS=Cover	ument the indi	evious inspe nd hydrolog cator or cor Grains; Locatio	nfirm the on: PL=Por Mottles	absence of in re Lining, M=Matr	dicators.)		nd hydrophytic		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix	indicators preded to docu atrix, CS=Cover	ument the indi	evious inspe nd hydrolog cator or cor Grains; Locatio	nfirm the on: PL=Por Mottles	absence of in re Lining, M=Matr	dicators.)		nd hydrophytic		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix	indicators preded to docu atrix, CS=Cover	ument the indi	evious inspe nd hydrolog cator or cor Grains; Locatio	nfirm the on: PL=Por Mottles	absence of in re Lining, M=Matr	dicators.)		nd hydrophytic		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix	indicators preded to docu atrix, CS=Cover	ument the indi	evious inspe nd hydrolog cator or cor Grains; Locatio	nfirm the on: PL=Por Mottles	absence of in re Lining, M=Matr	dicators.)		nd hydrophytic		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix	indicators preded to docu atrix, CS=Cover	ument the indi	evious inspe nd hydrolog cator or cor Grains; Locatio	nfirm the on: PL=Por Mottles	absence of in re Lining, M=Matr	dicators.)		nd hydrophytic		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix	indicators preded to docu atrix, CS=Cover	ument the indi	evious inspe nd hydrolog cator or cor Grains; Locatio	nfirm the on: PL=Por Mottles	absence of in re Lining, M=Matr	dicators.)		nd hydrophytic		
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)	indicators prevention of the second s	ument the indied/Coated Sand (A hydrolog cator or cor Grains; Locatio Moist)	y is assu nfirm the on: PL=Por Mottles %	absence of in re Lining, M=Matr	dicators.)		nd hydrophytid		
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)	indicators prevention of the second s	ument the indi	A hydrolog cator or cor Grains; Locatio Moist)	y is assu nfirm the on: PL=Por Mottles %	absence of in absence of in re Lining, M=Matr s Type	Location	Texture	or Problematic	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch	indicators provide the document of the documen	ument the indi ed/Coated Sand of Color (I	A series of the	y is assu nfirm the on: PL=Por Mottles %	absence of in absence of in re Lining, M=Matr s Type	dicators.)	Texture 	or Problematic uck (LRR I, J)	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Deple intration, D=Deple i	wetland hydrology be to the depth ne- tion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch- ipedon	eded to docu atrix, CS=Cover %	Lument the indied/Coated Sand (Color (I Color (I Color (I Color (I Color (I S5 - Sandy R S6 - Stripped	evious inspe and hydrolog cator or cor Grains; Location Moist) Moist) not present) edox Matrix	y is assu nfirm the on: PL=Por Mottles %	absence of in absence of in re Lining, M=Matr s Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Coast	or Problematic uck (LRR I, J) Prairie Redox (Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Deple ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon etic	eded to docc atrix, CS=Cover %	Lument the indied/Coated Sand G Color (I Color (I Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy M	A second	y is assu nfirm the on: PL=Por Mottles %	absence of in absence of in re Lining, M=Matr s Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks : Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Deple intration, D=Deple i	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch- ipedon ttic	indicators prevention of the second s	Liment the indied/Coated Sand (Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	evious inspe evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral eleved Matrix	y is assu nfirm the on: PL=Por Mottles %	absence of in absence of in re Lining, M=Matr s Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Deple intration, D=Deple i	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon etic	indicators prevention of the second s	Lument the indied/Coated Sand G Color (I Color (I Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy M	vious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral leyed Matrix Matrix	y is assu nfirm the on: PL=Por Mottles %	absence of in absence of in re Lining, M=Matr s Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sŭ F16 - High F F18 - Reduc	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic	Remarks : Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr	No primary iption (Descrintration, D=Depletion) intration, D=Depletion intration, D=Depletion, D=	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon stic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to docu atrix, CS=Cover % % eck here if ir [[[] [] []] []]]	Andicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F7 - Depleted	evious inspe and hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral leyed Matrix Matrix Matrix ark Surface Dark Surface	y is assu nfirm the on: PL=Por Mottles %	absence of in absence of in re Lining, M=Matr s Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic wed Vertic arrent Material Shallow Dark S	Remarks : Soils ¹ LRR F, G, H) MS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depleted intration, D=Depleted intration, D=Depleted A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Depleted A12 - Thick D	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eded to docu eded to docu atrix, CS=Cover % % % % % % % % % % % % % % % % % % %	Andicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F8 - Redox D	evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral ileyed Matrix Matrix Matrix Matrix Matrix Matrix Dark Surface pressions	y is assu nfirm the on: PL=Por Mottles % 1): [absence of in re Lining, M=Matr s Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic arent Material	Remarks : Soils ¹ LRR F, G, H) MS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr U	No primary iption (Descrintration, D=Depleter fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Depleter A12 - Thick D S1 - Sandy M	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Color (Moist) Indicators (ch ipedon suffide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	indicators prevention of the second s	Andicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F8 - Redox D	evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral ileyed Matrix Matrix Matrix Matrix Matrix Matrix Dark Surface pressions	y is assu nfirm the on: PL=Por Mottles % 1): [absence of in absence of in re Lining, M=Matr s Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic wed Vertic arrent Material Shallow Dark S	Remarks : Soils ¹ LRR F, G, H) MS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depleter intration, D=Depleter intration, D=Depleter 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 M	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eded to docu atrix, CS=Cover % % % % % % % % % % % % % % % % % % %	Andicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F8 - Redox D	evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral ileyed Matrix Matrix Matrix Matrix Matrix Matrix Dark Surface pressions	y is assu nfirm the on: PL=Por Mottles % 1): [absence of in re Lining, M=Matr s Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SQ F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression read Vertic 'arent Material Shallow Dark S shallow Dark S shallow Dark S	Remarks : Soils ¹ LRR F, G, H) MS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr U	No primary iption (Descrintration, D=Depleter intration, D=Depleter intration, D=Depleter 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 M	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR	eded to docu atrix, CS=Cover % % % % % % % % % % % % % % % % % % %	Andicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F8 - Redox D	evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral ileyed Matrix Matrix Matrix Matrix Matrix Matrix Dark Surface pressions	y is assu nfirm the on: PL=Por Mottles % 1): [absence of in re Lining, M=Matr s Type	dicators.)	Indicators of M A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression read Vertic 'arent Material Shallow Dark S shallow Dark S shallow Dark S	Remarks Soils ¹ LRR F, G, H) IRS (LRR H, outside MLRA 72, 73) urface	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr U	No primary iption (Descrintration, D=Depletric intration, D=Depletric intration, D=Depletric 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	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR	eded to docu atrix, CS=Cover % % % % % % % % % % % % % % % % % % %	Andicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F8 - Redox D	evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral ileyed Matrix Matrix Matrix Matrix Matrix Matrix Dark Surface pressions	y is assu nfirm the on: PL=Por Mottles % 1): [absence of in re Lining, M=Matr s Type	dicators.)	Indicators of M A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetat	Remarks Soils ¹ LRR F, G, H) IRS (LRR H, outside MLRA 72, 73) urface	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr U	No primary iption (Descrintration, D=Depletric intration, D=Depletric intration, D=Depletric 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 Gi	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR	eded to docu atrix, CS=Cover % % % % % % % % % % % % % % % % % % %	Andicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F8 - Redox D	evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix lucky Mineral ileyed Matrix Matrix Matrix Matrix Matrix Matrix Dark Surface pressions	y is assu nfirm the on: PL=Por Mottles % 1): [A 72, 73 of LRF	Location	Indicators of Multiples disturbed	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetat	Remarks Soils ¹ LRR F, G, H) IRS (LRR H, outside MLRA 72, 73) urface	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Depleter intration, D=Depleter ic Soil Field A1- Histosol A2 - Histic Epleter A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy Gl	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon stic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF cky Peat or Peat (LRF eyed Matrix	indicators prevention of the second s	And the indient of the indicators are restricted of the indicators are r	evious inspe evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix Matrix Matrix Matrix Matrix ark Surface epressions ains Depress	y is assu nfirm the on: PL=Por Mottles % 	A 72, 73 of LRF	dicators.) ix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sŭ F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetat ed or problematic.	Remarks Remark	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depleter intration, D=Depleter ic Soil Field A1- Histosol A2 - Histic Epleter A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy Gl	wetland hydrology be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon stic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF cky Peat or Peat (LRF eyed Matrix	indicators prevention of the second s	And the indient of the indicators are restricted of the indicators are r	evious inspe evious inspe ad hydrolog cator or cor Grains; Locatio Moist) Moist) edox Matrix Matrix Matrix Matrix Matrix ark Surface epressions ains Depress	y is assu nfirm the on: PL=Por Mottles % 	A 72, 73 of LRF	dicators.) ix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sŭ F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetat ed or problematic.	Remarks Soils ¹ LRR F, G, H) IRS (LRR H, outside MLRA 72, 73) urface	

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-152n42w30-b1					
VEGETATIO	N (Species identified in all uppercase ar	o non potivo								
	Plot size: 30 ft. radius)	e non-native	species.)							
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
<u>2.</u> 3.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)					
4.					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.	Total Cover =	0			OBL spp. 30 x 1 = 30 FACW spp. 60 x 2 = 120					
		0			FACW spp. 60 x $2 =$ 120 FAC spp. 0 x $3 =$ 0					
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. 0 $x 4 = 0$					
1.	,				$UPL spp. \qquad 0 \qquad x \ 5 = \qquad 0$					
2.										
3.					Total <u>90</u> (A) <u>150</u> (B)					
4.										
5.					Prevalence Index = B/A = <u>1.667</u>					
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)			FACIN	Problem Hydrophytic Vegetation (Explain) *					
1. 2.	Phalaris arundinacea	60 20	Y Y	FACW OBL	* Indicators of hydric soil and wetland hydrology must be					
3.	Typha angustifolia	10	N	OBL	present, unless disturbed or problematic.					
4.		10		ODL	Definitions of Vegetation Strata:					
5.				-						
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.					height (DBH), regardless of height.					
8.					• U. (•). Westwalastelast the 0 is DDU secondless of trickt					
9. 10.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.				-						
14.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	90	_							
Woodv Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.				-						
4.	Total Cause -	0								
Total Cover = 0 Remarks: The wetland vegetation is dominated by reed canary grass and woolly sedge.										
					y					
Additional Remarks:										