WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/02/14	
Applicant:		Enbridge								County:	Kittson	
	Investigators: BEH/BCS/MRK			Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit: 1140A				NWI Classification:								
Landform:	Dip				cal Relief:					Sample Point	w-159n48w6-c1	
Slope (%):	0 - 2%		Latitude: 48.		Longitude			Datum:				
		nditions on the site			ar? (If no, ex			⊡Yes	□ No	Section:		
Are Vegetation							Are normal circumstances present?			Township:		
Are Vegetati		D or Hydrology	Liturally p	roblematic?			Yes	□No		Range:	Dir:	
SUMMARY (
Hydrophytic			Yes		_			Hydric Soi				
Wetland Hyd	trology Prese	ent?	Yes					Is This Sai	mpling Poir	nt Within A W	etland? Yes	
Remarks:					i by foxtail	barley ar	nd Nuttall's alka	ali grass. Th	ie strip is lo	cated betwee	en a roadside ditch area	a and a
		trip that separates	it from a gra	ivel clearing.								
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	I that apply;	Minimum of o	ne primary	or two se	econdary requi	red):				
Primary									Secondary:			
	A1 - Surface				B11 - Salt					B6 - Surface S		
	A2 - High Wa A3 - Saturatio				B13 - Aqua C1 - Hydro						Vegetated Concave Surface	ce
	B1 - Water M				C1 - Hyurc						Rhizospheres on Living Ro	oots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not till				,oto (tinou)
	B3 - Drift Dep	osits			C4 - Prese						n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin I		ace			D2 - Geomorp		
	B5 - Iron Dep			L	Other (Exp	olain)				D5 - FAC-Neu		
		on Visible on Aerial Im tained Leaves	hagery							D7 - Frost-He	aved Hummocks (LRR F)	
	Do - Water-O											
Field Obser	vations:											
	er Present?	Vac 🗖	Dee	41	(in)							
Water Table			Dep	th:	(in.)			Wetland H	lydrology	Present?	Y	
Saturation P		Yes		th:								
				th:	(in.)							
Decesile e Dece	D - t - /											
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	revious insp	pections),	, if available:					
Remarks:		stream gauge, moni d is located in an a						Neutral test				
-								Neutral test				
Remarks: SOILS	The wetland	d is located in an a	area that col	ects water, ar	d the vege	etation pa	asses the FAC-					
Remarks: SOILS Profile Descr	The wetland	d is located in an a	area that col	ects water, ar ument the ind	d the vege	etation pa	asses the FAC- e absence of ir	ndicators.)				
Remarks: SOILS Profile Descr	The wetland	d is located in an a	area that col	ects water, ar ument the ind	d the vege	etation pa	asses the FAC- e absence of ir	ndicators.)				
Remarks: SOILS Profile Descr	The wetland	d is located in an a ibe to the depth ne etion, RM=Reduced Ma	area that col	ects water, ar ument the ind	d the vege	onfirm th	e absence of ir ore Lining, M=Matr	ndicators.)				
Remarks: SOILS Profile Descr (Type: C=Conce	The wetland	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix	eeded to doo	ects water, ar ument the ind red/Coated Sand	d the vege icator or co Grains; Loca	etation pa onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ndicators.) ^{rix)}				
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.)	The wetland	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doo latrix, CS=Cove	ument the ind red/Coated Sand	d the vege icator or co Grains; Loca	onfirm th	e absence of ir ore Lining, M=Matr	ndicators.)	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8	The wetland iption (Descr ntration, D=Depl Hue_10YR	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove 9	ument the ind red/Coated Sand	d the vege icator or co Grains; Loca (Moist)	etation pa confirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type	ndicators.) rix)	Texture C		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.)	The wetland	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doo latrix, CS=Cove	ects water, ar ument the ind red/Coated Sand	d the vege icator or co Grains; Loca (Moist)	etation pa onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ndicators.) ^{rix)}	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8	The wetland iption (Descr ntration, D=Depl Hue_10YR	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove 9	ument the ind red/Coated Sand	d the vege icator or co Grains; Loca (Moist)	etation pa confirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type	ndicators.) rix)	Texture C		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8	The wetland iption (Descr ntration, D=Depl Hue_10YR	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove 9	ument the ind red/Coated Sand	d the vege icator or co Grains; Loca (Moist)	etation pa confirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type	ndicators.) rix)	Texture C		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8	The wetland iption (Descr ntration, D=Depl Hue_10YR	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove 9	ument the ind red/Coated Sand	d the vege icator or co Grains; Loca (Moist)	etation pa confirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type	ndicators.) rix)	Texture C		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8	The wetland iption (Descr ntration, D=Depl Hue_10YR	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove 9	ument the ind red/Coated Sand	d the vege icator or co Grains; Loca (Moist)	etation pa confirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type	ndicators.) rix)	Texture C		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22	The wetland	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to doo latrix, CS=Cove 9 10 9	ument the ind red/Coated Sand	d the vege icator or c Grains; Loca (Moist) 6/6	Mottle	e absence of ir ore Lining, M=Mat es Type	ndicators.) rix)	Texture C		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22	The wetland	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to doo latrix, CS=Cove 9 10 9	ects water, ar ument the ind red/Coated Sand Color 0 3 Hue_2.5Y	d the vege icator or c Grains; Loca (Moist) 6/6	Mottle	e absence of ir ore Lining, M=Mati es Type C	ndicators.) rix)	C C	for Problemati		
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr	The wetland	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to doo latrix, CS=Cove 9 10 9 10 9	ects water, ar ument the ind red/Coated Sand Color 0 3 Hue_2.5Y	d the vege icator or cc Grains; Loca (Moist) 6/6	Mottle	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture C C	for Problemati		
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr	The wetland iption (Descr ntration, D=Dept Hue_10YR Hue_2.5Y	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to doo atrix, CS=Cove 9 10 9	ument the ind red/Coated Sand	d the vege icator or co Grains; Loca (Moist) 6/6 6/6 Not preser Redox	Mottle	e absence of ir ore Lining, M=Mati es Type C	Location M	C C Indicators 1 A9 - 1 cm M		<u>c Soils¹</u>	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch spedon stic	eeded to doo latrix, CS=Cove 9 10 9 10 9	ects water, ar ument the ind red/Coated Sand Color Color 0 3 Hue_2.5Y ndicators are S5 - Sandy F S6 - Strippe F1 - Loamy	d the vege icator or c Grains; Loca (Moist) 6/6 6/6 not preser Redox J Matrix Mucky Miner	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture C C Indicators i A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) t Prairie Redox urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr	The wetland iption (Descr ntration, D=Depi Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/2 Indicators (ch ipedon stic n Sulfide	eeded to doo latrix, CS=Cove 9 10 9 9	ects water, ar ument the ind red/Coated Sand Color 0 3 Hue_2.5Y hue_2.5Y a hue_2.5Y S5 - Sandy f S5 - Sandy f S6 - Stripper F1 - Loamy F2 - Loamy	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Idicators.) ix) Location M	Texture C C Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi	<u>c Soils¹</u> (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr NRCS Hydr	The wetland iption (Descr ntration, D=Dept Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to doo atrix, CS=Cove 9 10 9	ects water, ar	d the vege icator or co Grains; Loca (Moist) 6/6 6/6 6/6 Contemporal Redox 1 Matrix Mucky Miner Sleyed Matrix d Matrix	Atation parameters in the second seco	e absence of ir ore Lining, M=Mati 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	luck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic	<u>c Soils¹</u> (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydi U	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hit A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to doo latrix, CS=Cove 9 10 9 10 9	ects water, ar ument the ind red/Coated Sand Color Color 0 3 Hue_2.5Y ndicators are S5 - Sandy f S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox f	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Indicators.)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Redu TF2 - Red F	luck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr NRCS Hydr	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hit A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to doo latrix, CS=Cove	ects water, ar	d the vege icator or c Grains; Loca (Moist) 6/6 6/6 not presen Redox J Matrix Mucky Miner Gleyed Matrix Jark Surface d Dark Surface	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Idicators.)	Texture C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	luck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	The wetland iption (Descr ntration, D=Dept Hue_10YR Hue_2.5Y Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/2 Indicators (ch ipedon stic Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eeded to doo atrix, CS=Cove 9 10 9 10 9 10 9 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 not preser Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface d Dark Surface	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Idicators.)	Texture C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	Iuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material v Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr U U U U U U U U U U U U U	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LI	eeded to doo latrix, CS=Cove 9 10 9 10 9 10 9 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 not preser Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface d Dark Surface	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Idicators.)	Indicators of A9 - 1 cm M A16 - Coast A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Redut TF2 - Red F TF12 - Very Other (Explain	Nuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material ' Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr U U U U U U U U U U U U U	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRI	eeded to doo latrix, CS=Cove 9 10 9 10 9 10 9 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 not preser Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface d Dark Surface	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Idicators.)	Indicators i A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High F F18 - Redur TF2 - Red F TF12 - Very Other (Expla	Iuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material v Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface	t be present,
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr U U U U U U U U U U U U U	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRI	eeded to doo latrix, CS=Cove 9 10 9 10 9 10 9 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 not preser Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface d Dark Surface	Atation particular par	e absence of ir ore Lining, M=Mati es Type C	Idicators.)	Indicators i A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High F F18 - Redur TF2 - Red F TF12 - Very Other (Expla	Nuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material ' Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to doo latrix, CS=Cove 9 10 9 10 9 10 9 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar ument the ind red/Coated Sand Color Color 0 3 Hue_2.5Y Hue_2.5Y andicators are S5 - Sandy f S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox f F7 - Deplete F8 - Redox f F16 - High F	d the vege icator or c Grains; Loca (Moist) 6/6 6/6 not presen Redox J Matrix Mucky Miner Gleyed Matrix Jucky Miner Gleyed Matrix Jark Surface d Dark Surface d Dark Surface	Atation particular par	e absence of ir ore Lining, M=Mati es Type C C 	Location M	Indicators 1 A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expland) 'Indicators of I unless disturbed	Iuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material v Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr U U U U U U U U U U U U U	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to doo latrix, CS=Cove 9 10 9 10 9 10 9 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar	d the vege icator or c Grains; Loca (Moist) 6/6 6/6 not presen Redox J Matrix Mucky Miner Gleyed Matrix Jucky Miner Gleyed Matrix Jark Surface d Dark Surface d Dark Surface	Atation particular par	e absence of ir ore Lining, M=Mati es Type C C 	Idicators.)	Indicators 1 A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expland) 'Indicators of I unless disturbed	Iuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material v Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr U U U U C Restrictive Laye	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y 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 S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type:	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 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 doo latrix, CS=Cove 9 10 9 10 9 10 9 10 9 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar ument the ind red/Coated Sand Color Color 0 3 Hue_2.5Y Hue_2.5Y 1 S5 - Sandy f S6 - Stripper S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox f F7 - Deplete F8 - Redox f F16 - High F Depth	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/	Atation particular par	e absence of ir ore Lining, M=Mati es Type C C RA 72, 73 of LRF Hydric So	ix) Location M I I R H)	Texture C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) I Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-22 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	The wetland iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y 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 S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type:	d is located in an a be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to doo latrix, CS=Cove 9 10 9 10 9 10 9 10 9 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	ects water, ar ument the ind red/Coated Sand Color Color 0 3 Hue_2.5Y Hue_2.5Y 1 S5 - Sandy f S6 - Stripper S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox f F7 - Deplete F8 - Redox f F16 - High F Depth	d the vege icator or cc Grains; Loca (Moist) 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/	Atation particular par	e absence of ir ore Lining, M=Mati es Type C C RA 72, 73 of LRF	ix) Location M I I R H)	Texture C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) I Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-159n48w6-c1					
VEGETATION Tree Stratum (N (Species identified in all uppercase and Plot size: 30 ft. radius)	e non-native	species.)							
(<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 2 (B)					
5.										
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
7. 8.					Prevalence Index Worksheet					
9.	<u> </u>				Total % Cover of: Multiply by:					
10.					OBL spp. $25 \times 1 = 25$					
10.	Total Cover =	0			FACW spp. 75 x 2 = 150					
					FAC spp. 0 \times 3 = 0					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 25 x 4 = 100					
1.					UPL spp. 0 \times 5 = 0					
2.										
3.					Total <u>125</u> (A) <u>275</u> (B)					
4.										
5.					Prevalence Index = B/A = 2.200					
6.	ļ									
7.										
8.					Hydrophytic Vegetation Indicators:					
9.	<u> </u>				Rapid Test for Hydrophytic Vegetation					
10.	Total Cover =	0			X Dominance Test is > 50% X Prevalence Index is ≤ 3.0 *					
		0			X Prevalence Index is ≤ 3.0 * Morphological Adaptations (Explain) *					
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Hordeum jubatum	55	Y	FACW						
2.	Puccinellia nuttalliana	25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be					
3.	Symphyotrichum lanceolatum	15	Ν	FACW	present, unless disturbed or problematic.					
4.	Symphyotrichum ericoides	10	N	FACU	Definitions of Vegetation Strata:					
5.	Elymus repens	10	N	FACU						
6	Rumex stenophyllus	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Ambrosia artemisiifolia	5	N	FACU	height (DBH), regardless of height.					
8.										
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.					Herb - All herbaceous (non-woody) plants, regardless of size.					
12.					Herb - An herbadeeda (hen woody) plants, regardless of size.					
13. 14.					4					
14.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	125								
		. 20								
Woody Vine Str	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.	ļ									
4.										
Demester	Total Cover =	0	thelle - U	li ana	Duck more and mixed forthe are also community					
Remarks:	The sample point is dominated by foxfall bar	iey and Nu	illali's alka	iii grass. G	Quack grass and mixed forbs are also common.					
A al al 141										
Additional R	emarks:									