WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date:	06/28/14	
Applicant: Enbridge										County:	Kittson	
Investigators: EAB/RAJ Soil Unit: 1132A				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:			I Classification	:								
Landform:	Talf				cal Relief:		000	Datur		Sample Point:	u-159n49w25-d2	
Slope (%):	0 - 2%		Latitude: 48.5		Longitude:			Datum: □Yes	⊡ No	O LATIN L		
		nditions on the site			al ? (If no, exp					Section:		
Are Vegetatio		G or Hydrology				Ale	e normal circun Yes		esent?	Township:		
Are Vegetation Soil or Hydrology Arturally problematic? Yes No Range: Dir: Dir:												
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No			Is This Sampling Poir				etland? No	
Remarks:	The sample	site lies in a tilled.		at field that d	Iraine into ·	an adiac	ent roadside di	itch Recent	heavy rain	s have affecte	ad the region	
Remarks.	The sample		, planted whe			an aujac			incavy rain.	s have ancele		
HYDROLOG	v											
		instant (Charle all	that any ly M	lining of an				ine d).				
	Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):											
Primary:	A1 - Surface			B11 - Salt	Crust			Secondary:	B6 - Surface S	oil Cracks		
	A2 - High Wa				B13 - Aqua	atic Fauna					Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro							
	B1 - Water M B2 - Sedimen			H	C2 - Dry So	eason wa	spheres on Living	Poots (not til		C3 - Oxidized I C8 - Crayfish E	Rhizospheres on Living Roots (tilled)	
	B3 - Drift Dep				C4 - Prese	nce of Re	duced Iron				Nisible on Aerial Imagery	
	B4 - Algal Ma	t or Crust			C7 - Thin N		ace			D2 - Geomorp	hic Position	
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu		
	B7 - Inundation B9 - Water-Si	on Visible on Aerial Im	lagery							D7 - Frost-Hea	wed Hummocks (LRR F)	
	D0 - Walci-O											
Field Obser	vations:											
Surface Wat		Yes 🛛	Denth	ו:	(in.)							
Water Table		Yes	Depti	ו:	(in.)			Wetland H	lydrology	Present?	Ν	
Saturation Pr		Yes			(in.)						—	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
			-		evious insp	ections),	if available:					
Remarks:		stream gauge, moni hydrology indicato	-		evious insp	pections),	if available:					
Remarks:			-		- evious insp	pections),	if available:					
Remarks: SOILS	No wetland		ors were obse	rved.	-	·		ndicators.)				
Remarks: SOILS Profile Descri	No wetland	hydrology indicato	eeded to docu	rved. ment the indi	icator or co	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma	eeded to docu	rved. ment the indi	icator or co	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix	eeded to docu	rved. ment the indi cd/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Mati	rix)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No wetland	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covers %	rved. ment the indi d/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No wetland ption (Descr htration, D=Depl Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covers % 100	rved. ment the indi d/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Mati	rix)	С		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12	No wetland ption (Descr htration, D=Depl Hue_10YR Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to docu atrix, CS=Covers % 100 60	rved. ment the indi d/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Mati	rix)	C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12	No wetland ption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1	eeded to docu atrix, CS=Covere % 100 60 40	rved. ment the indi ad/Coated Sand Color (Cator or cc Grains; Loca Moist)	onfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	C C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18	No wetland ption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1	eeded to docu atrix, CS=Covere % 100 60 40 95	rved. ment the indi d/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Mati	rix)	C C C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12	No wetland ption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1	eeded to docu atrix, CS=Covere % 100 60 40	rved. ment the indi ad/Coated Sand Color (Cator or cc Grains; Loca Moist)	onfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	C C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18	No wetland ption (Descr tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1	eded to docu atrix, CS=Covere % 100 60 40 95 4	rved. ment the indi d/Coated Sand Color (Hue_2.5Y	Moist)	Mottle Mottle %	e absence of ir ore Lining, M=Matr es Type D	Location	C C C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18	No wetland ption (Descr tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1	eeded to docu atrix, CS=Covere % 100 60 40 95	rved. ment the indi d/Coated Sand Color (Hue_2.5Y	Moist)	Mottle Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	C C C C C			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr	No wetland ption (Descr tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1	eded to docu atrix, CS=Covere % 100 60 40 95 4 eck here if in	rved. ment the indi dd/Coated Sand Color (Hue_2.5Y dicators are i	Moist) 7/1 not presen	Mottle Mottle %	e absence of ir ore Lining, M=Matr es Type D	Location M	C C C C C Indicators 1	for Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 12-18 12-18 NRCS Hydr	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR a Soil Field	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eded to docu atrix, CS=Covere % 100 60 40 95 4 40 95 4 40 95 4 40 95	rved. ment the indi d/Coated Sand Color (Hue_2.5Y dicators are i S5 - Sandy R	Moist) 7/1 Redox	Mottle Mottle %	e absence of ir ore Lining, M=Matr es Type D	Location M	C C C C C Indicators 1 A9 - 1 cm M	luck (LRR I, J)	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon	eeded to docu atrix, CS=Covere % 100 60 40 95 4 neck here if in	rved. ment the indi d/Coated Sand Color (Hue_2.5Y dicators are I 3 S5 - Sandy R S6 - Stripped	Moist) 7/1 Redox	nfirm th tion: PL=P Mottle % 1	e absence of ir ore Lining, M=Matr es Type D	Location M	C C C C C Indicators f A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 12-18 12-18 NRCS Hydr	No wetland ption (Descr tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide	eeded to docu atrix, CS=Covere % 100 60 40 95 4 neck here if in	rved. ment the indi d/Coated Sand Color (Hue_2.5Y dicators are i S5 - Sandy R	Moist) 7/1 Redox Matrix Mucky Minera	nfirm th tion: PL=P Mottl % 1 t):	e absence of ir ore Lining, M=Matr es Type D	Location M Location	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_20YR Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eded to docu atrix, CS=Covere % 100 60 40 95 4 eck here if in	rved. ment the indi d/Coated Sand Color (Hue_2.5Y Hue_2.5Y dicators are I S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy (F2 - Loamy (F3 - Depleted	icator or cc Grains; Loca Moist) 7/1 7/1 Not presen Redox I Matrix Jucky Minera Sleyed Matrix d Matrix	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matr es Type D	Location M	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic	: <u>Soils1</u> RR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr □ □ □ □	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eded to docu atrix, CS=Covered % 100 60 40 95 4 40 95 40 95 40 100 60 40 95 40 95 40 100 60 40 95 40 95 40 40 95 40 40 95 40 40 40 40 40 40 40 40 40 40 40 40 40	rved. ment the indi d/Coated Sand Color (Hue_2.5Y dicators are I S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleter F6 - Redox C	Moist) 7/1 7/1 Redox Matrix Jucky Miner: Gleyed Matrix J Matrix Dark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matr es Type D	Location M	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Parent Material	2 <mark>Soils¹</mark> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to docu atrix, CS=Covere % 100 60 40 95 4 heck here if in	rved. ment the indi- d/Coated Sand Color (Hue_2.5Y dicators are I S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleter F6 - Redox E F6 - Redox E F6 - Redox E F6 - Depleter	Moist) 7/1 Redox Matrix Mucky Minera Gleyed Matrix Jark Surface Jark Surface Jark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matr es Type D	Location M	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Parent Material Shallow Dark S	2 <mark>Soils¹</mark> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr □ □ □ □	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR FG) ok (LRR FGH) d Below Dark Surface ark Surface	eeded to docu atrix, CS=Covere % 100 60 40 95 4 neck here if in	Internet the indi definition of the indi definition of the indi definition of the indi- dicators are indi- dindi- dicators are indi- dicators are indi- dicators are	icator or co Grains; Loca Moist) 7/1 7/1 not presen Redox I Matrix Mucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jark Surface d Dark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matr es Type D	Location M M	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Parent Material	2 <mark>Soils¹</mark> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y 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 S2 - 2.5 cm N	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 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 docu atrix, CS=Covere % 100 60 40 95 4 eck here if in E e E RR G, H)	Internet the indi definition of the indi definition of the indi definition of the indi- dicators are indi- dindi- dicators are indi- dicators are indi- dicators are	icator or co Grains; Loca Moist) 7/1 7/1 not presen Redox I Matrix Mucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jark Surface d Dark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Mati es Type D	Location M M	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Parent Material Shallow Dark S	2 <mark>Soils¹</mark> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No wetland ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic EF A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Nucky Peat or Peat (LRF	eeded to docu atrix, CS=Covere % 100 60 40 95 4 eck here if in E e E RR G, H)	Internet the indi definition of the indi definition of the indi definition of the indi- dicators are indi- dindi- dicators are indi- dicators are indi- dicators are	icator or co Grains; Loca Moist) 7/1 7/1 not presen Redox I Matrix Mucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jark Surface d Dark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Mati es Type D	Location M M	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic Parent Material Shallow Dark S ain in Remarks)	2 <mark>Soils¹</mark> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y 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 S2 - 2.5 cm N	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Nucky Peat or Peat (LRF	eeded to docu atrix, CS=Covere % 100 60 40 95 4 eck here if in E e E RR G, H)	Internet the indi definition of the indi definition of the indi definition of the indi- dicators are indi- dindi- dicators are indi- dicators are indi- dicators are	icator or co Grains; Loca Moist) 7/1 7/1 not presen Redox I Matrix Mucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jark Surface d Dark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Mati es Type D	Location M M	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Parent Material Shallow Dark S ain in Remarks)	2 <u>Soils¹</u> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR 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 S3 - 5 cm Mu S4 - Sandy G	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LRF leyed Matrix	eeded to docu atrix, CS=Covere % 100 60 40 95 4 eck here if in E e E RR G, H)	Ved. ment the indi d/Coated Sand Color (Hue_2.5Y dicators are I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Popleter F6 - Redox E F6 - Redox E F6 - High PI	Moist) Moist) 7/1 Not presen Redox Matrix Mucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Joark Surface J Dark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matrices Type D D RA 72, 73 of LRF	Location M M C C C C C C C C C C C C C C C C C	C C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic Parent Material Shallow Dark S ain in Remarks)	2 <u>Soils¹</u> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y 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	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LRF leyed Matrix	eeded to docu atrix, CS=Covere % 100 60 40 95 4 eck here if in E e E RR G, H)	Internet the indi definition of the indi definition of the indi definition of the indi- dicators are indi- dindi- dicators are indi- dicators are indi- dicators are	Moist) Moist) 7/1 Not presen Redox Matrix Mucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Joark Surface J Dark Surface	nfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matrices Type D D RA 72, 73 of LRF	Location M M	C C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic Parent Material Shallow Dark S ain in Remarks)	2 <u>Soils¹</u> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 12-18 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hi 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	hydrology indicato	ee E E RR G, H) R F)	rved. ment the indi dd/Coated Sand Color (Lagrandian Color (Hue_2.5Y Hue_2.5Y dicators are I S5 - Sandy R S5 - Stripped S6 - Stripped S7 - Loamy M F1 - Loamy M F2 - Loamy C F3 - Depleter F6 - Redox E F7 - Depleter F8 - Redox E F8 - Redox E F8 - Redox E F8 - High Pl F8 - High Pl Depth:	icator or cc Grains; Loca Moist) 7/1 7/1 not presen Redox I Matrix Mucky Minera Gleyed Matrix Jeyed Matrix Jark Surface d Dark Surface d Dark Surface	mfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matrices Type D D RA 72, 73 of LRF	I Location	C C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic Parent Material Shallow Dark S ain in Remarks)	2 <u>Soils¹</u> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-12 6-12 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No wetland ption (Descr tration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hi 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	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LRF leyed Matrix	ee E E RR G, H) R F)	rved. ment the indi dd/Coated Sand Color (Lagrandian Color (Hue_2.5Y Hue_2.5Y dicators are I S5 - Sandy R S5 - Stripped S6 - Stripped S7 - Loamy M F1 - Loamy M F2 - Loamy C F3 - Depleter F6 - Redox E F7 - Depleter F8 - Redox E F8 - Redox E F8 - Redox E F8 - High Pl F8 - High Pl Depth:	icator or cc Grains; Loca Moist) 7/1 7/1 not presen Redox I Matrix Mucky Minera Gleyed Matrix Jeyed Matrix Jark Surface d Dark Surface d Dark Surface	mfirm th tion: PL=P Mottle % 1 1 t):	e absence of ir ore Lining, M=Matrices Type D D RA 72, 73 of LRF	I Location	C C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic Parent Material Shallow Dark S ain in Remarks)	2 <u>Soils¹</u> RR F, G, H) MS (LRR H, outisde MLRA 72, 73)	

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w25-d2					
VEOETATIO										
VEGETATIO	N (Species identified in all uppercase an (Plot size: 30 ft. radius)	e non-native	e species.)							
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 1 (B)					
5.										
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)					
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					$\frac{1}{\text{OBL spp.}} 0 \qquad \text{x 1} = 0$					
10.	 Total Cover =	0			FACW spp. 0 x 2 = 0					
			_		FAC spp. 0 x 3 = 0					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20					
1.					UPL spp. 75 x 5 = 375					
2.										
3.					Total 80 (A) 395 (B)					
4.										
5.					Prevalence Index = B/A = 4.938					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9. 10.					Rapid Test for Hydrophytic Vegetation					
10.	Total Cover =	0			Dominance Test is > 50% Prevalence Index is ≤ 3.0 *					
		0	_							
Herb Stratum (Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *					
1.	Triticum aestivum	70	Y	NI						
2.	Thlaspi arvense	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Ambrosia trifida	5	Ν	NI	present, unless disturbed or problematic.					
4.					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.										
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.										
15.	<u> </u>				Woody Vines - All woody vines, regardless of height.					
10.	Total Cover =	80			·····, ·····					
		00								
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.										
Den 1	Total Cover =	0								
Remarks:	The sample site is dominated by planted whe	eat.								
Additional R	kemarks:									