WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	07/07/14		
Applicant: Enbridge										Kittson			
Investigators: BCS/BEH				Subregion (MLRA or LRR): MLRA 56 NWI Classification: PFO1A							MN		
Soil Unit:	1132A						Classification	: PFO1A					
Landform:	Depression		1. 1. 10.00		cal Relief:		004666	Deture		Sample Point	w-159n49w5-b2		
Slope (%):	0 - 2%	nditions on the site	Latitude: 48.62			-97.0020		Datum	⊡ No				
	, ,		71		al ? (If no, exp		normal circur			Section:			
Are Vegetation		□ or Hydrology □ or Hydrology	☐gnificantly ☐turally pro			Ale	Inormal circui ⊒ Yes		esent	Township:	Dire		
SUMMARY C				blematic?						Range:	Dir:		
Hydrophytic V			Vee					Hudria Sai	la Dragont?	Vaa			
Wetland Hyd			Yes Yes				Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes				otland? Vos		
Remarks:				rdwood swa	mn locater	d within w	hat annears to				ljacent to an agricultural soybean		
rtemarto.	field.		dominated na	awood swa					iumsteau,				
HYDROLOG													
		icators (Check all	that apply; Mi	inimum of on	e primary	or two se	econdary requi	ired):	0				
Primary: A1 - Surface Water				□ B11 - Salt Crust							Soil Cracks		
AT - Surface Water ✓ A2 - High Water Table					B13 - Aqua						Vegetated Concave Surface		
4	A3 - Saturatio	n		C1 - Hydrogen Sulfide Odor							B10 - Drainage Patterns		
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Prese		pheres on Living	Roots (not til			Burrows n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N				_				
	B5 - Iron Dep	osits			Other (Exp	lain)			1	D5 - FAC-Neu	tral Test		
		on Visible on Aerial Im	lagery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-Si	tained Leaves											
Field Observ		Yes D	Death		(im)								
Surface Wate Water Table			Depth		(in.)			Wetland H	lydrology	Present?	Y		
Saturation Pr			Depth	-	(in.)								
			Depth	·	(in.)								
		stream gauge, moni	itoring well, aer	ial photos, pr	evious insp	pections).	if available [.]						
Remarks: The soil is saturated at the surface. A high water table is present at 3 inches.													
Remarks:	The soil is s	saturated at the su	rface. A high v	water table is	present a								
	The soil is s	aturated at the su	rface. A high v	water table is	present a								
SOILS			, in the second s		•	at 3 inches	S.	ndicators)					
SOILS Profile Descri	ption (Descr	ibe to the depth ne	eded to docu	ment the indi	cator or co	at 3 inches	s. e absence of ir						
SOILS Profile Descri	ption (Descr		eded to docu	ment the indi	cator or co	at 3 inches	s. e absence of ir						
SOILS Profile Descri	ption (Descr	ibe to the depth ne	eded to docu	ment the indi	cator or co	at 3 inches	S. e absence of in pre Lining, M=Mat						
SOILS Profile Descri	ption (Descr	ibe to the depth ne etion, RM=Reduced Ma	eded to docu	ment the indi	cator or co Grains; Loca	onfirm the	S. e absence of in pre Lining, M=Mat		Texture		Remarks		
SOILS Profile Descri (Type: C=Concer	ption (Descr	ibe to the depth ne etion, RM=Reduced Ma Matrix	eded to docui	ment the indi d/Coated Sand	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	s. e absence of ir ore Lining, M=Mat	rix)	Texture	Accumulation of p	Remarks		
SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descrinitation, D=Depl	ibe to the depth ne etion, RM=Reduced Mi Matrix Color (Moist)	eded to docur atrix, CS=Coverer	ment the indi d/Coated Sand	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	s. e absence of ir ore Lining, M=Mat	rix)		Accumulation of p			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4	ption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docur atrix, CS=Covered % 100	ment the indi d/Coated Sand	cator or cc Grains; Loca Moist)	onfirm the tion: PL=Po Mottle	s. e absence of ir ore Lining, M=Mat	rix)	С	Accumulation of p			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20	ption (Descrintration, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to docur atrix, CS=Covered % 100 100	ment the indi d/Coated Sand Color (Cator or co Grains; Loca Moist) 5/6	tt 3 inches	s. e absence of ir rre Lining, M=Mat ss Type	Location	C C	Accumulation of p			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20	ption (Descrintration, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to docur atrix, CS=Covered % 100 100	ment the indi d/Coated Sand Color (Hue_10YR	Cator or co Grains; Loca Moist) 5/6	Mottle	s. e absence of ir pre Lining, M=Mat es Type C	Location M	C C C	Accumulation of p			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20	ption (Descrintration, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to docur atrix, CS=Covered % 100 100	ment the indi d/Coated Sand Color (Hue_10YR	Cator or co Grains; Loca Moist) 5/6	Mottle	s. e absence of ir pre Lining, M=Mat es Type C	Location M	C C C	Accumulation of p			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1	eeded to docur atrix, CS=Coverent % 100 100 70	ment the indi d/Coated Sand Color (Hue_10YR Hue_10YR	Cator or co Grains; Locar Moist) 5/6 2/1	Mottle	s. e absence of ir pre Lining, M=Mat es Type C	Location M	C C C	Accumulation of p			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1	eeded to docur atrix, CS=Covered % 100 100	ment the indi d/Coated Sand Color (Hue_10YR Hue_10YR	Cator or co Grains; Locar Moist) 5/6 2/1	Mottle	s. e absence of ir ore Lining, M=Mat es Type C C	Location M	C C C		plant material present		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1	eded to docur atrix, CS=Coverer % 100 100 70 eck here if inc	ment the indi d/Coated Sand Color (Hue_10YR Hue_10YR	Cator or co Grains; Locar Moist) 5/6 2/1 not presen	Mottle	s. e absence of ir ore Lining, M=Mat es Type C C	Location M M	C C C C Indicators 1	Accumulation of p	plant material present		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon	eeded to docur atrix, CS=Covered % 100 100 70 neck here if ind	ment the indi d/Coated Sand of Color (Hue_10YR Hue_10YR dicators are r	Cator or co Grains; Loca Moist) 5/6 2/1 not presen	tt 3 inchest	s. e absence of ir ore Lining, M=Mat es Type C C	Location M M M	C C C C Indicators 1 A9 - 1 cm M A 16 - Cost F	for Problematie luck (LRR I, J) Prairie Redox (L	plant material present <u>c Soils1</u> .RR F, G, H)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch spedon	eeded to docuu atrix, CS=Coveree % 100 100 70 eeck here if inc	Ment the indi d/Coated Sand (Color (Hue_10YR Hue_10YR dicators are r	Cator or cc Grains; Loca Moist) 5/6 2/1 not presen Redox Matrix /ucky Minera	at 3 inchest	s. e absence of ir ore Lining, M=Mat es Type C C	Location M M M	C C C C Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	for Problematii luck (LRR I, J) Prairie Redox (L urface (LRR G)	plant material present <u>c Soils¹</u> .RR F, G, H)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide	eeded to docum atrix, CS=Coverent % 100 100 70 neck here if ind	Ment the indi d/Coated Sand (Color (Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M	Cator or co Grains; Locar Moist) 5/6 2/1 not presen tedox Matrix Jucky Minera	at 3 inchest	s. e absence of ir ore Lining, M=Mat es Type C C	Location M M M	C C C C A9 - 1 cm M A16 - Cost H S7 - Dark S F16 - High F	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressie	plant material present <u>c Soils1</u> .RR F, G, H)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to docur atrix, CS=Coverent % 100 100 70 eeck here if ind	Color (Color (Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy C F3 - Depleted	Cator or co Grains; Loca Moist) 5/6 2/1 bot presen Vedox Matrix Aucky Minera Sleyed Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t): al	s. e absence of ir ore Lining, M=Mat es Type C C	Location M M M	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio zed Vertic	plant material present <u>c Soils¹</u> .RR F, G, H)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27	ption (Descri tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide	eded to docur atrix, CS=Covered % 100 100 70 eck here if ind	Ment the indi d/Coated Sand (Color (Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M	Cator or co Grains; Loca Moist) 5/6 2/1 100 presen Redox Matrix Aucky Minerris Sleyed Matrix J Matrix J Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t): al	s. e absence of ir ore Lining, M=Mat es Type C C	ix)	C C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressie	Dlant material present		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR 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	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR FG) ck (LRR FGH) ck (LRR FGH) ck (LRR FGH) ck Surface	eded to docum atrix, CS=Coverent % 100 100 70 neck here if ind	Color (Color (Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Cator or co Grains; Locar Moist) 5/6 2/1 ot presen dedox Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t):	s. e absence of ir re Lining, M=Mat ss Type C C C	Location M M M	C C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressia ced Vertic Parent Material	Dlant material present <u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y 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	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eded to docur atrix, CS=Coverent % 100 100 70 eck here if ind	Color (Color (Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Cator or co Grains; Locar Moist) 5/6 2/1 ot presen dedox Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t):	s. e absence of ir ore Lining, M=Mat es Type C C	Location M M M	C C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	for Problematii luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S	Dlant material present <u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr NRCS Hydr U	ption (Descri tration, D=Depi Hue_10YR 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 M	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (L	eded to docuu atrix, CS=Coveree % 100 100 70 ee ee RR G, H)	Color (Color (Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Cator or co Grains; Locar Moist) 5/6 2/1 ot presen dedox Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t):	s. e absence of in tre Lining, M=Mat ss Type C C C	Location M M M	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	for Problematic luck (LRR I, J) Prairie Redox (L Urface (LRR G) Plains Depressio Palans Depressio Patro Material Shallow Dark S ain in Remarks)	c Soils ¹ LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR 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 M	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR	eded to docuu atrix, CS=Coveree % 100 100 70 ee ee RR G, H)	Color (Color (Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Cator or co Grains; Locar Moist) 5/6 2/1 ot presen dedox Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t):	s. e absence of in tre Lining, M=Mat ss Type C C C	Location M M M	C C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematic luck (LRR I, J) Prairie Redox (L Urface (LRR G) Plains Depressio Palans Depressio Patro Material Shallow Dark S ain in Remarks)	Dlant material present <u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y 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	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR	eded to docuu atrix, CS=Coveree % 100 100 70 ee ee RR G, H)	Color (Color (Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	Cator or co Grains; Locar Moist) 5/6 2/1 ot presen dedox Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t):	s. e absence of in tre Lining, M=Mat ss Type C C C	Location M M M	C C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressia ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descri tration, D=Depi Hue_10YR 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	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	eded to docuu atrix, CS=Coveree % 100 100 70 ee ee RR G, H)	Ment the indi d/Coated Sand (Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F16 - High Pl	Cator or cc Grains; Loca Moist) 5/6 2/1 not presen Redox Matrix Aucky Minera Bleyed Matrix Jucky Minera Bleyed Matrix	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t):	s. e absence of ir ore Lining, M=Mat is Type C C C C RA 72, 73 of LRF	rix)	C C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematii luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressia ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y 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	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 4/1 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 ky Peat or Peat (LR	eded to docur atrix, CS=Coverent % 100 100 70 e beck here if ind e RR G, H) R F)	Ment the indi d/Coated Sand i Color (i Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F7 - Depletec F8 - Redox D F16 - High Pl	cator or cc Grains; Loca Moist) 5/6 2/1 1000 presen dedox Matrix Aucky Minera Sleyed Matrix Aucky Minera Sleyed Matrix Aucky Minera Sleyed Matrix ark Surface d Dark Surface d Dark Surface	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t): al x sce ssions (MLF	s. e absence of in re Lining, M=Mat s Type C C C RA 72, 73 of LRF Hydric So	rix)	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	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Plains Ced vertic ced	c Soils1 LRR F, G, H) ONS (LRR H, outlade MLRA 72, 73) Surface in and wetland hydrology must be present,		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y 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	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 4/1 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 ky Peat or Peat (LR	eded to docur atrix, CS=Coverent % 100 100 70 e beck here if ind e RR G, H) R F)	Ment the indi d/Coated Sand i Color (i Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F7 - Depletec F8 - Redox D F16 - High Pl	cator or cc Grains; Loca Moist) 5/6 2/1 1000 presen dedox Matrix Aucky Minera Sleyed Matrix Aucky Minera Sleyed Matrix Aucky Minera Sleyed Matrix ark Surface d Dark Surface d Dark Surface	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t): al x sce ssions (MLF	s. e absence of in re Lining, M=Mat s Type C C C RA 72, 73 of LRF Hydric So	rix)	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	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Plains Ced vertic ced	c Soils ¹ LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-20 20-27 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descri tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y 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	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 4/1 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 ky Peat or Peat (LR	eded to docur atrix, CS=Coverent % 100 100 70 e beck here if ind e RR G, H) R F)	Ment the indi d/Coated Sand i Color (i Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F7 - Depletec F8 - Redox D F16 - High Pl	cator or cc Grains; Loca Moist) 5/6 2/1 1000 presen dedox Matrix Aucky Minera Sleyed Matrix Aucky Minera Sleyed Matrix Aucky Minera Sleyed Matrix ark Surface d Dark Surface d Dark Surface	t 3 inchest onfirm the tion: PL=Po Mottle % 10 20 t): al x sce ssions (MLF	s. e absence of in re Lining, M=Mat s Type C C C RA 72, 73 of LRF Hydric So	rix)	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	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Plains Ced vertic ced	c Soils1 LRR F, G, H) ONS (LRR H, outlade MLRA 72, 73) Surface in and wetland hydrology must be present,		

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w5-b2
VEOETATION					
VEGETATION	Species identified in all uppercase and Plot size: 30 ft. radius)	e non-native	species.)		
The character (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Acer saccharinum	15	Y	FAC	
2.	Fraxinus pennsylvanica	5	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)
3.	Acer negundo	5	Y	FAC	
4.					Total Number of Dominant Species Across All Strata: 6 (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. 0 x 1 = 0
	Total Cover =	25	_		FACW spp. 87 x 2 = 174
					FAC spp. 57 x 3 = 171
	Stratum (Plot size: 15 ft. radius)				FACU spp. 2 x 4 = 8
1.	Acer saccharinum	15	Y	FAC	UPL spp. 2 X 5 = 10
2.	Acer negundo	10	Y	FAC	
3.	Fraxinus pennsylvanica	5	N	FAC	Total <u>148</u> (A) <u>363</u> (B)
4.	Cornus alba	5	N	FACW	
5.	Salix pentandra	2	N	NI	Prevalence Index = B/A = 2.453
6.	<u>_</u>				
7.	<u>_</u>				
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	37	_		<u>X</u> Prevalence Index is \leq 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius) Phalaris arundinacea	80	Y	FACW	Problem Hydrophytic Vegetation (Explain) *
2.	Urtica dioica	2	N	FACT	* Indicators of hydric soil and wetland hydrology must be
3.	Asclepias incarnata	2	N	FAC	present, unless disturbed or problematic.
<u> </u>	Cirsium arvense	2	N	FACU	Definitions of Vegetation Strata:
4. 5.		2	IN	TACO	Demittions of Vegetation Strata.
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.
13.				-	
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	86			
Woody Vine Str	atum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland is dominated by silver maple in herbaceous layer.	the tree st	ratum, silv	er maple	and box elder in the sapling/shrub stratum, and reed canary grass in the
Additional R	emarks.				
	כווומו הש.				