WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14
Applicant:		Enbridge								County:	Pennington
Investigators					Subregion (MLRA or LRR): MLRA 56						MN
Soil Unit:	I16F			_			I Classification:	PFO1A			
Landform:	Rise		10.00		cal Relief:		0.405000			Sample Point:	u-153n43w29-n1
Slope (%):	8 - 15%	. 190	Latitude: 48.03		Longitude:			Datum:			
	<u>, </u>	nditions on the sit	7 1		ar' (If no, expl				□ No	Section:	
Are Vegetation		□, or Hydrology	•			Are	e normal circum	•	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally pro	biematic?			Yes	□ No		Range:	Dir:
SUMMARY C									L D	NI	
Hydrophytic '			No		-				ls Present?		atlando Na
Wetland Hyd			No	fuere e le eucli	used sugar	•		is this Sar	npling Poin	t Within A W	etland? No
Remarks:	rne upiana	sample point is lo	cated upsiope	from a nard	wood swan	np.					
LIVEROLOG	V										
HYDROLOG											
		icators (Check all	I that apply; Mi	nimum of on	e primary o	or two se	econdary requii	red):	_		
<u>Primary</u>	_			_	D. ()				Secondary:		
	A1 - Surface \A2 - High Wa				B11 - Salt C B13 - Aquat					B6 - Surface S	
	A3 - Saturation				C1 - Hydrog					B10 - Sparsely	Vegetated Concave Surface
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (tilled
	B2 - Sedimen	•			C3 - Oxidize	ed Rhizos	spheres on Living	Roots (not till	• 🗆	C8 - Crayfish E	Burrows
	B3 - Drift Dep				C4 - Presen						n Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M		ace			D2 - Geomorp D5 - FAC-Neu	
	•	อรแร n Visible on Aerial Im	nagery	П	Other (Expla	airi)					aved Hummocks (LRR F)
	B9 - Water-St		agory						_	27 110011100	
Field Obser	vations:										
Surface Wat	er Present?	Yes □	Depth:		(in.)			Matle ed II		D	N I
Water Table	Present?	Yes □	Depth:		- (in.)			wetiand H	lydrology l	Present?	N
Saturation P	resent?	Yes □	Depth:		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	tream gauge mon	<u> </u>		• • •	ections)	if available:				
	•		itoring well, aer	ial photos, pr	evious inspe	ections),	if available:				
Describe Rec Remarks:	•	stream gauge, mon or secondary hydr	itoring well, aer	ial photos, pr	evious inspe	ections),	if available:				
Remarks:	•		itoring well, aer	ial photos, pr	evious inspe	ections),	if available:				
Remarks:	No primary	or secondary hydr	itoring well, aer	ial photos, protors were ob	evious inspense			dicators.)			
Remarks: SOILS Profile Descri	No primary		itoring well, aer	ial photos, protors were obtained in the indi	evious inspenserved.	nfirm th	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary hydr be to the depth ne etion, RM=Reduced M	itoring well, aer	ial photos, protors were obtained in the indi	evious inspenserved.	nfirm th	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary hydr	itoring well, aer	ial photos, protors were obtained in the indi	evious inspenserved.	nfirm th	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri	No primary	or secondary hydr be to the depth ne etion, RM=Reduced M	itoring well, aer	ial photos, protors were obtained in the indi	evious inspenserved. cator or congrains; Locati	nfirm tho	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrometric be to the depth necession, RM=Reduced M	itoring well, aer rological indica eeded to docur latrix, CS=Covered	ial photos, protors were obtained the indicated Sand	evious inspenserved. cator or congrains; Locati	nfirm the	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	or secondary hydrometric be to the depth neterion, RM=Reduced Matrix Color (Moist)	itoring well, aer rological indica eeded to docur latrix, CS=Covered	ial photos, protors were obtained the indicated Sand	evious inspenserved. cator or congrains; Locati	nfirm the	e absence of in ore Lining, M=Matr	ix)	Texture L CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15	No primary iption (Descrintration, D=Depl	or secondary hydrometric be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	rological indica	ial photos, protors were obtained the indicated Sand	evious inspenserved. cator or congrains; Locati	nfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15	No primary iption (Descrintration, D=Depl	or secondary hydrometric be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	rological indica	ial photos, protors were obtained the indicated Sand	evious inspenserved. cator or congrains; Locati	nfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15	No primary iption (Descrintration, D=Depl	or secondary hydrometric be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	rological indica	ial photos, protors were obtained the indicated Sand	evious inspenserved. cator or congrains; Locati	nfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15	No primary iption (Descrintration, D=Depl	or secondary hydrometric be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	rological indica	ial photos, protors were obtained the indicated Sand	evious inspenserved. cator or congrains; Locati	nfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_5Y	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to docur latrix, CS=Covered	nent the indi	evious insperserved. cator or congrains; Location Moist)	nfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20	No primary iption (Descrintration, D=Depl	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	rological indica	nent the indi	evious insperserved. cator or congrains; Location Moist)	nfirm the	e absence of in ore Lining, M=Matr es Type	ix)	CL	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_5Y	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to docur latrix, CS=Covered	nent the indi	evious insperserved. cator or congrains; Location Moist) not present	nfirm the	e absence of in ore Lining, M=Matr es Type	Location	L CL Indicators f	or Problemation	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20	No primary iption (Description, D=Deplementation, D=Deplementation	or secondary hydrotetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (ch	eeded to docur latrix, CS=Covered	nent the indi	evious insperserved. cator or congrains; Location Moist) not present	nfirm the	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	No primary iption (Description, D=Deplementation, D=Deplementatio	or secondary hydrological betto the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (chapted on stice)	eeded to docur latrix, CS=Covered	ial photos, protors were obtained the indicators and color (Solor (Solor Solor Sol	evious insperserved. cator or congrains; Location Moist) not present edox Matrix Mucky Minera	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (chain in Sulfide)	itoring well, aer rological indicated and the rological indicated at the role indicated at the rological indicated at the role indicated at the rological in	ial photos, protors were obtained the indicators and color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	evious insperserved. cator or congrains; Location Moist) not present, edox Matrix Mucky Minera	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	Hue_10YR Hue_5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (chain ipedon stice in Sulfide Layers (LRR F)	eeded to docur latrix, CS=Covered	ial photos, protors were obtained the indial/Coated Sand Color (Color (S5 - Sandy RS6 - Stripped F1 - Loamy NF2 - Loamy NF3 - Depleted	evious insperserved. cator or congrains; Location Moist) not present edox Matrix Mucky Minera Gleyed Matrix Matrix Matrix	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression eed Vertic	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characteristic by Sulfide Layers (LRR F) ck (LRR FGH)	itoring well, aer rological indica eeded to docur latrix, CS=Covered 100	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	evious insperserved. cator or cordinates; Location Moist) not present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	or secondary hydromore be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (chain in Sulfide Layers (LRR FGH) de Below Dark Surface	itoring well, aer rological indica eeded to docur latrix, CS=Covered 100	ial photos, protors were obtained the indial/Coated Sand Color (Color (S5 - Sandy RS6 - Stripped F1 - Loamy NF2 - Loamy NF3 - Depleted	cator or congrains; Location Moist) Moist) edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression eed Vertic	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, aer rological indica eeded to docur latrix, CS=Covered 100	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. Cator or congrains; Location Moist) Moist) Hot present edox Matrix Mucky Minera Gleyed Matrix I Matrix eark Surface I Dark Surface epressions	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_5Y Hue_5Y 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 neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (L	itoring well, aer rological indical eeded to docur latrix, CS=Covered 100 100 100 Eeck here if income Eeck	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. Cator or congrains; Location Moist) Moist) Hot present edox Matrix Mucky Minera Gleyed Matrix I Matrix eark Surface I Dark Surface epressions	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	Hue_10YR Hue_5Y Tic 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 S3 - 5 cm Mu	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	itoring well, aer rological indical eeded to docur latrix, CS=Covered 100 100 100 Eeck here if income Eeck	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. Cator or congrains; Location Moist) Moist) Hot present edox Matrix Mucky Minera Gleyed Matrix I Matrix eark Surface I Dark Surface epressions	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_5Y Hue_5Y 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 neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	itoring well, aer rological indical eeded to docur latrix, CS=Covered 100 100 100 Eeck here if income Eeck	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insperserved. Cator or congrains; Location Moist) Moist) Hot present edox Matrix Mucky Minera Gleyed Matrix I Matrix eark Surface I Dark Surface epressions	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	Hue_10YR Hue_5Y Tic 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 S3 - 5 cm Mu	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	itoring well, aer rological indical eeded to docur latrix, CS=Covered 100 100 100 Eeck here if income Eeck	color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F1 - High Pl	cator or congrains; Location Moist) Moist) Mot present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface Pepressions Ains Depressions Ains Depressions	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	itoring well, aer rological indical eeded to docur latrix, CS=Covered 100 100 100 Eeck here if income Eeck	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Location Moist) Moist) Mot present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface Pepressions Ains Depressions Ains Depressions	nfirm the on: PL=Pe	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-20 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_5Y Hue_5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histic Ep A3 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	itoring well, aer rological indical eeded to docur latrix, CS=Covered 100 100 100 eeded to docur latrix, Reserved eeded to docur latrix, Reserved eeded to docur latrix, Reserved eeded to docur latrix, CS=Covered eeded to docur latrix, CS=Covere	color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	evious insperserved. Cator or cordinates and present and present and present and present and present ark Surface and Surface ark Surface ark Surface are pressions are pr	nfirm the on: PL=Pendent Mottle %	e absence of in ore Lining, M=Matrees Type RA 72, 73 of LRF	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n43w29-n1					
					•					
VEGETATIO	` '	re non-native	species.)							
Tree Stratum ((Plot size: 30 ft. radius)									
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.	Tilia americana	50	Y	FACU						
2.	Ulmus americana	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC:1(A)					
3.										
4.					Total Number of Dominant Species Across All Strata:4(B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp					
	Total Cover =	70			OBL spp. $\begin{array}{ccccc} & 0 & & x & 1 = & & 0 \\ & & & & & & & & & & & & & & & &$					
			FAC spp. 20 $\times 3 = 60$							
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 125 $x 4 = 500$					
1.	Rhamnus cathartica	75	Y	FACU	UPL spp. 20 $x = 5$ $x = 100$					
2.	Zanthoxylum americanum	5	N	UPL						
3.					Total 165 (A) 660 (B)					
4.										
5.					Prevalence Index = $B/A = 4.000$					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
101	Total Cover =	80			Prevalence Index is ≤ 3.0 *					
	, otal oove,				Morphological Adaptations (Explain) *					
Horb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1	Carex pensylvanica	15	V	NI	Floblem Hydrophytic Vegetation (Explain)					
2.	Carex perisyrvanica	13	<u>'</u>	111	* Indicators of hydric soil and wetland hydrology must be					
3.					present, unless disturbed or problematic.					
					· · · · · · · · · · · · · · · · · · ·					
4. 5.					Definitions of Vegetation Strata:					
					Troe					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.					
7.					Height (DDH), regardless of Height.					
8.					One the artOhamaka Woody plants loss than 2 in DBH, regardless of height					
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.					All harbonous from wood Antonio and Science					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	15								
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present?N					
5.										
4.										
	Total Cover =	- 0								
Remarks: The upland sample point canopy is dominated by basswood and American elm. The shrub layer is predominantly European buckthorn. The ground layer										
dominated by Pennsylvania sedge.										
	No. 10 a									
Additional Remarks:										