WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/30/14
Applicant:		Enbridge									County:	Red Lake
Investigators	s:	LEB/DGL				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	150A	223,3 02	,				•	Classification:			o tato.	
Landform:	Side slope					cal Relief:		Classification			Camala Daint	4E4m40w4E d4
											Sample Point:	u-151n42w15-d1
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:			
Are climatic/	/hydrologic cc	nditions on the sit	e typical fo	or this	time of yea	ar? (If no, exp	olain in rema	arks)	⊡Yes	□ No	Section:	
Are Vegetati	ion 📮 Soi	☐ or Hydrology	□anifica	antlv di	isturbed?		Are	e normal circun	nstances pre	esent?	Township:	
Are Vegetati		or Hydrology						Yes	□No .		Range:	Dir:
SUMMARY			— itarany	y probit	omatio.						range.	Б
	Vegetation P		_	1 0					Hydric Soil			
Wetland Hyd	drology Prese	nt?	N	٧o					Is This Sar	mpling Poin	it Within A We	etland? No
Remarks:	The sample	point is located sl	lightly upsl	slope fr	om the we	tland in a l	large cat	tle pasture.				
	•	•					· ·	•				
LIVEROL OC												
HYDROLOG	Υ											
Wetland Hy	vdrology Ind	icators (Check all	I that apply	v: Minii	mum of on	e primary	or two se	econdary requi	red):			
Primary				<i>y</i> ,		o pa. y	00 0.	oooaa., .oqa.		Secondary:		
<u></u>	A1 - Surface	Water				B11 - Salt (Crust				B6 - Surface S	oil Cracks
A1 - Surface Water A2 - High Water Table				☐ B13 - Aquatic Fauna						/egetated Concave Surface		
	A3 - Saturation					C1 - Hydro					B10 - Drainage	
	B1 - Water M											Rhizospheres on Living Roots (tilled
	B2 - Sedimen										C8 - Crayfish E	
	B3 - Drift Dep								. 10010 (1101 1111			Visible on Aerial Imagery
	B4 - Algal Ma			☐ C7 - Thin Muck Surface ☐							D2 - Geomorpi	
	B5 - Iron Dep										D5 - FAC-Neut	
		on Visible on Aerial Im	nagery		_	O 1.101 (E/A)	,					ived Hummocks (LRR F)
I	B9 - Water-S		.ago.y							_	2	
_												
Field Obser												
Surface War	ter Present?	Yes	D	Depth:		(in.)			Matlemal II		D=====40	N
Water Table	Present?	Yes \square	D	Depth:		(in.)			Wetland H	iyarology i	Present?	N
Saturation P		Yes		Depth:		(in.)						_
Saturation	resent:	res 🗀	D	лерии		(111.)						
Describe Rec	corded Data (s	stream gauge, moni	itoring well	l, aerial	photos, pr	evious insp	ections),	if available:				
								if available:				
Describe Red Remarks:		stream gauge, moni or secondary indic						if available:				
Remarks:								if available:				
Remarks:	No primary	or secondary indic	cators of w	vetland	l hydrology	were obs	erved.		-did			
Remarks: SOILS Profile Descr	No primary	or secondary indicates in the secondary indicate	cators of w	vetland locume	hydrology ent the indi	were obs	erved.	e absence of ir				
Remarks: SOILS Profile Descr	No primary	or secondary indic	cators of w	vetland locume	hydrology ent the indi	were obs	erved.	e absence of ir				
Remarks: SOILS Profile Descr	No primary	or secondary indicates	cators of w	vetland locume	hydrology ent the indi	were obs	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descr	No primary	or secondary indicates in the secondary indicate	cators of w	vetland locume	hydrology ent the indi	were obs	erved.	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indicates	cators of w	docume	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)	Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to delatrix, CS=Co	docume overed/C	hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indicates	eeded to delatrix, CS=Co	docume	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)	Texture SICL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to delatrix, CS=Co	docume overed/C	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to delatrix, CS=Co	docume overed/C	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to delatrix, CS=Co	docume overed/C	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to delatrix, CS=Co	docume overed/C	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to delatrix, CS=Co	docume overed/C	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to delatrix, CS=Co	docume overed/C	I hydrology ent the indi	were obscartor or co	erved. onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates of secondary indicates	eeded to deatrix, CS=Co	docume byered/C	ent the indi coated Sand	cator or cc Grains; Local	erved. onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	or secondary indicates of secondary indicates	eeded to deatrix, CS=Co	docume byered/C	I hydrology ent the indi	cator or cc Grains; Local	erved. onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr es Type	ix)	SICL		
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Description, D=Depl	or secondary indicates of secondary indicates	eeded to deatrix, CS=Co	docume overed/C % 100	ent the indicated Sand (cator or co Grains; Local Moist)	erved. onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	SICL Indicators 1	for Problematic	
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl Hue_10YR ric Soil Field	or secondary indicators or secondary indicators indicat	eeded to deatrix, CS=Co	docume overed/C % 100 if indic	ent the indicated Sand (Color (I	cator or co Grains; Local Moist)	erved. onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M	luck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep	or secondary indicators or secondary indicators or secondary indicators ibe to the depth neetion, RM=Reduced Mineral Matrix Color (Moist) 2/1 Indicators (chapter of the color indicators)	eeded to deatrix, CS=Co	wetland	ent the indicated Sand (Color (I	were obscator or cograins; Local Moist) Moist) not presented with the company of the company	monfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Description, D=Deplementation, D=Deplementatio	or secondary indicators ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 Indicators (chairpedon stic	eeded to deatrix, CS=Co	wetland	cent the indicated Sand of Color (i	were observed where observed were observed with the control of the	erved. confirm the tion: PL=Po Mottle % tt):	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Description (Type: C=Conce) Depth (In.) 0-18 NRCS Hyd	No primary ription (Descrentration, D=Depl Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep	or secondary indicators ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 Indicators (chairpedon stic	eeded to deatrix, CS=Co	wetland	ent the indicated Sand (Color (I	were observed where observed were observed with the control of the	erved. confirm the tion: PL=Po Mottle % tt):	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary indicators ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 Indicators (chairpedon stic	eeded to deatrix, CS=Co	wetland	cent the indicated Sand of Color (i	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera	erved. confirm the tion: PL=Po Mottle % tt):	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: <u>Soils¹</u> LRR F, G, H)
Remarks: SOILS Profile Description (Type: C=Conce) Depth (In.) 0-18 NRCS Hyd	ription (Descrentration, D=Deplementation, D=Dep	or secondary indicators ibe to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) 2/1 Indicators (chaipedon stic in Sulfide	eeded to deatrix, CS=Co	wetland	Color (I	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera Eleyed Matrix Matrix Matrix Matrix	months with the served and the serve	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: <u>Soils¹</u> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce	ription (Descrentration, D=Depl Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary indicators (chapter of the depth neetion, RM=Reduced Mineral Matrix Color (Moist) 2/1 Indicators (chapter of the depth neetion of the depth neetion of the depth neeting neetin	eeded to deatrix, CS=Co	wetland	cators are r 55 - Sandy R 66 - Stripped 17 - Loamy C 23 - Depleted	cator or co Grains; Local Moist) Moist) not presen edox Matrix lucky Minera Sleyed Matrix I Matrix ark Surface	months with the served and the serve	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S7 F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ped Vertic	E Soils 1 LRR F, G, H) INS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce	ription (Descrentration, D=Depl Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary indicators ibe to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 Indicators (chairpedon estication is Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface	eeded to deatrix, CS=Co	wetland	cators are r S - Sandy R 66 - Stripped 1 - Loamy M 22 - Loamy M 23 - Depleted 66 - Redox D	Moist) Moist) Mot presen edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface	months with the served and the serve	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material	E Soils 1 LRR F, G, H) INS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary indicators ibe to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) Indicators (chairpedon Stick Sufficients Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface	eeded to deatrix, CS=Co	wetland	cators are r S5 - Sandy R 61 - Stripped 12 - Loamy G 33 - Depleted 66 - Redox D 77 - Depleted 88 - Redox D	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	E Soils 1 LRR F, G, H) INS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce	ription (Descrentration, D=Deplementation, D=Dep	or secondary indicators (chairpedon Sulfide Layers (LRR F) ck (LRR FGH) de Beton Surface aucky Mineral	eeded to de atrix, CS=Co	wetland	cators are r S5 - Sandy R 61 - Stripped 12 - Loamy G 33 - Depleted 66 - Redox D 77 - Depleted 88 - Redox D	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	E Soils 1 LRR F, G, H) INS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Description (Type: C=Concert) Depth (In.) 0-18 NRCS Hydi	No primary ription (Descr Intration, D=Depl Hue_10YR Hue_10YR A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratific A9-1 cm Mu A11- Deplete A12- Thick D S1- Sandy M S2-2.5 cm M	or secondary indicators ibe to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) Indicators (chairpedon Stick Sufficients Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface	eeded to delatrix, CS=Co	wetland	cators are r S5 - Sandy R 61 - Stripped 12 - Loamy G 33 - Depleted 66 - Redox D 77 - Depleted 88 - Redox D	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coasts F16 - High F 18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic sed Vertic 'earent Material 'Shallow Dark S ain in Remarks)	: Soils¹ LRR F, G, H) ons (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Description, D=Deplication, D=Deplication) Hue_10YR Hue_10YR A1- Histosol A2- Histic Ep A3 - Black His A4- Hydroge A5- Stratification A9- 1 cm Mu A11- Deplete A12- Thick D S1- Sandy M S2- 2.5 cm M S3- 5 cm Mu	or secondary indicators ibe to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 Indicators (chairpedon stic in Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ucky Mineral fucky Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	eeded to delatrix, CS=Co	wetland	cators are r S5 - Sandy R 61 - Stripped 12 - Loamy G 33 - Depleted 66 - Redox D 77 - Depleted 88 - Redox D	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators I A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic sed Vertic 'earent Material 'Shallow Dark S ain in Remarks)	E Soils 1 LRR F, G, H) INS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descr Intration, D=Depl Hue_10YR Hue_10YR A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratific A9-1 cm Mu A11- Deplete A12- Thick D S1- Sandy M S2-2.5 cm M	or secondary indicators ibe to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 Indicators (chairpedon stic in Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ucky Mineral fucky Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	eeded to delatrix, CS=Co	wetland	cators are r S5 - Sandy R 61 - Stripped 12 - Loamy G 33 - Depleted 66 - Redox D 77 - Depleted 88 - Redox D	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators I A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic earent Material Shallow Dark S ain in Remarks)	: Soils¹ LRR F, G, H) ons (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Description, D=Deplication, D=Deplication) Hue_10YR Hue_10YR 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 S4 - Sandy G	or secondary indicators (chapted in Sulface Layers (LRR F) cd (LRR FGH) de Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	eeded to delatrix, CS=Co	wetland	cators are r S - Sandy R 6 - Stripped 1 - Loamy G 2 - Loamy G 6 - Redox D 7 - Depletec 8 - Redox D 7 - High Pl	Moist) Moist) Moist) Mot presen edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators I A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic earent Material Shallow Dark S ain in Remarks)	: Soils¹ LRR F, G, H) ons (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Description, D=Deplication, D=Deplication) Hue_10YR Hue_10YR 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 S4- Sandy G	or secondary indicators (chapted in Sulface Layers (LRR F) cd (LRR FGH) de Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	eeded to delatrix, CS=Co	wetland	cators are r S5 - Sandy R 61 - Stripped 12 - Loamy G 33 - Depleted 66 - Redox D 77 - Depleted 88 - Redox D	Moist) Moist) Moist) Mot presen edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators of unless disturbed	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic earent Material Shallow Dark S ain in Remarks)	: Soils¹ LRR F, G, H) ons (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Description Control Co	No primary ription (Descrentration, D=Depleter 10 PR Hue_10YR Hue_10YR 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 S4 - Sandy G Type:	or secondary indicators (chapted in the secondar	eeded to delatrix, CS=Co	wetland docume overed/C % 100 if indic S S F F F F F F F F F F F F F F F F F	cators are r Solve Stripped Loamy M Color (I Color (Moist) Moist) Moist) Mot presen edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators of unless disturbed	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic earent Material Shallow Dark S ain in Remarks)	: Soils¹ LRR F, G, H) ons (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depleter 10 PR Hue_10YR Hue_10YR 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 S4 - Sandy G Type:	or secondary indicators (chapted in Sulface Layers (LRR F) cd (LRR FGH) de Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	eeded to delatrix, CS=Co	wetland docume overed/C % 100 if indic S S F F F F F F F F F F F F F F F F F	cators are r Solve Stripped Loamy M Color (I Color (Moist) Moist) Moist) Mot presen edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	months of the served. In the served of the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators of unless disturbed	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ed Vertic earent Material Shallow Dark S ain in Remarks)	: Soils¹ LRR F, G, H) ons (LRR H, outside MLRA 72, 73) urface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-d1			
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)					
	(Plot size: 30 ft. radius)							
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.	Quercus macrocarpa	30	Υ	FACU				
2.	Populus tremuloides	5	N	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.					Total Name of Bollina in Openies / Notes of In Ottala			
6.					Descent of Deminant Creation That Are ORL FACIAL or FAC: 25.00/ (A/D)			
					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. 0 x 1 = 0			
	Total Cover =	35			FACW spp. 0 x 2 = 0			
		_		FAC spp. 25 x 3 = 75				
Sapling/Shrub				FACU spp. 75 x 4 = 300				
1.	Populus tremuloides	20	Υ	FAC	UPL spp. 60 x 5 = 300			
2.	Rhamnus cathartica	5	Y	FACU	· · · · · · · · · · · · · · · · · · ·			
3.			•	00	Total 160 (A) 675 (B)			
4.					Total 160 (A) 675 (B)			
					Describeros lados. D/A			
5.					Prevalence Index = B/A = <u>4.219</u>			
6.	<u> </u>							
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	25			Prevalence Index is ≤ 3.0 *			
	-		_		Morphological Adaptations (Explain) *			
Harb Stratum (Plot size: 5 ft. radius)							
1.	Carex pensylvanica	60	Υ	NI	Problem Hydrophytic Vegetation (Explain) *			
					* Indicators of hydric soil and wetland hydrology must be			
2.	Fragaria virginiana	10	N	FACU	present, unless disturbed or problematic.			
3.	Trifolium hybridum	10	N	FACU				
4.	Phleum pratense	10	N	FACU	Definitions of Vegetation Strata:			
5.	Lotus comiculatus	5	N	FACU				
6	Achillea millefolium	5	N	FACU	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.			
				_	TIGID			
13.								
14.					All control of the second of t			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	100						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.	,							
2.								
3.					Hydrophytic Vegetation Present? N			
5. 5.				_	Tryurophytic vegetation Fresent:			
4.	7.16			_				
	Total Cover =	0						
Remarks:	The vegetation is dominated by non-hydroph	ytic specie	es and is m	noderately	grazed.			
Additional F	Remarks:							
Auditional Formation								