WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/14/14
Applicant:		Enbridge								County:	Red Lake
Investigators		BCS/KRG			Subregion	(MI RA	or LRR):	MLRA 56		State:	MN
Soil Unit:	159A	Boontito	l l		_ 000109101		Classification:			Oldio.	
Landform:	Talf				and Dalinfo		Ciassilication.			O In Date	454=4024 ==4
					cal Relief:					Sample Point	u-151n42w24-m1
Slope (%):	0 - 2%		Latitude: 47		Longitude:			Datum:			
Are climatic/		nditions on the site		r this time of ye	ar? (If no, exp			⊡Yes	□ No	Section:	
Are Vegetati	on 🖵 Soil	☐ or Hydrology	□gnificar	ntly disturbed?		Are	normal circum	istances pr	esent?	Township:	
Are Vegetati		☐ or Hydrology					Yes	□No		Range:	Dir:
SUMMARY				problemater						range.	5
Hydrophytic	•		No		_				ils Present?		
Wetland Hyd			No							t Within A W	
Remarks:	The upland	sample point is loo	cated in a h	nardwood fores	t communit	y domina	ated by quaking	g aspen, bu	ır oak, Penn	nsylvania sed	ge, and bracken fern.
HYDROLOG	V										
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all	that apply:	Minimum of or	ne primary o	or two se	condary requi	red):			
Primary		,	,		. ,		, ,	,	Secondary:		
	A1 - Surface	Nater			B11 - Salt C	Crust				B6 - Surface S	Soil Cracks
l =	A2 - High Wa				B13 - Aquat						Vegetated Concave Surface
l =	A3 - Saturation				C1 - Hydrog		e Odor			B10 - Drainage	
I =	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (tilled)
l =	B2 - Sedimen	t Deposits					pheres on Living	Roots (not til		C8 - Crayfish E	
I =	B3 - Drift Dep				C4 - Preser			(n Visible on Aerial Imagery
l =	B4 - Algal Ma				C7 - Thin M	luck Surfac	ce			D2 - Geomorp	
	B5 - Iron Dep	osits			Other (Expl	ain)				D5 - FAC-Neu	tral Test
	B7 - Inundation	n Visible on Aerial Im	nagery		` .	,				D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S		0 ,								, ,
Field Obser	vations:										
		_									
Surface Wat	er Present?	Yes \square	De	pth:	(in.)			Watland F	Hydrology I	Procent?	N
Water Table	Present?	Yes \square	De	pth:	(in.)			Wetland	iyarology i	i resent:	14
Saturation P	resent?	Yes		pth:	(in.)						
					_ ()						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec							if available:				
Describe Rec Remarks:		stream gauge, moni or secondary indic					if available:				
							if available:				
Remarks:							if available:				
Remarks:	No primary	or secondary indic	cators of we	etland hydrolog	y were obse	erved.		idicators)			
Remarks: SOILS Profile Descr	No primary	or secondary indic	eeded to do	etland hydrolog	y were obse	erved.	e absence of in				
Remarks: SOILS Profile Descr	No primary	or secondary indic	eeded to do	etland hydrolog	y were obse	erved.	e absence of in				
Remarks: SOILS Profile Descr	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma	eeded to do	etland hydrolog	y were obse	erved. Infirm the	e absence of in re Lining, M=Matr		1	ı	
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix	eeded to do	etland hydrolog cument the ind ered/Coated Sand	y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)			
Remarks: SOILS Profile Descr	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma	eeded to do	etland hydrolog	y were obse	erved. Infirm the	e absence of in re Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix	eeded to do	etland hydrolog cument the ind ered/Coated Sand	y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture FSL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	cument the independent of the in	y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)	FSL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9	No primary iption (Descriptration, D=Depi	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eeded to do atrix, CS=Cov	etland hydrolog cument the independence Sand Color (y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)	FSL FS		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9	No primary iption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1	eeded to do atrix, CS=Cov	cument the independence of the color of the	y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)	FSL FS FS		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9	No primary iption (Descriptration, D=Depi	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	eeded to do atrix, CS=Cov	etland hydrolog cument the independence Sand Color (y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)	FSL FS		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9	No primary iption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1	eeded to do atrix, CS=Cov	cument the independence of the color of the	y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)	FSL FS FS		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9	No primary iption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1	eeded to do atrix, CS=Cov	cument the independence of the color of the	y were obse	onfirm the	e absence of in ore Lining, M=Matr	ix)	FSL FS FS		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18	No primary iption (Descr ntration, D=Depi Hue 10YR Hue 10YR Hue 10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2	eeded to do atrix, CS=Cov	cument the independence of the content of the conte	y were observed icator or co	erved. Infirm the ion: PL=Po Mottle %	e absence of in re Lining, M=Matr is Type	ix)	FSL FS FS		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18	No primary iption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2	eeded to do atrix, CS=Cov	cument the independence of the color of the	y were observed icator or co	erved. Infirm the ion: PL=Po Mottle %	e absence of in ore Lining, M=Matr	ix)	FSL FS FS FS		
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2	eeded to do atrix, CS=Cov	cument the independent of the in	y were observed icator or co Grains; Locati	erved. Infirm the ion: PL=Po Mottle %	e absence of in re Lining, M=Matr is Type	Location	FSL FS FS Indicators f	or Problematic	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18 NRCS Hydi	No primary iption (Descritration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov	cument the independent of the in	y were observed icator or co Grains; Locati	erved. Infirm the ion: PL=Po Mottle %	e absence of in re Lining, M=Matr is Type	Location	FSL FS FS Indicators f	luck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18 NRCS Hydi	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov	cument the independence of	y were observed icator or co Grains; Locati	mfirm the ion: PL=Po Mottle %	e absence of in re Lining, M=Matr is Type	Location	FSL FS FS Indicators f		c Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18 NRCS Hydi	No primary iption (Descritration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov	cument the independent of the in	y were observed icator or co Grains; Locati	mfirm the ion: PL=Po Mottle %	e absence of in re Lining, M=Matr is Type	Location	FSL FS FS Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils¹ (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$5 - Sandy F \$6 - Strippey \$1 - Loamy (100) \$1 - Sandy (100) \$2 - Sandy (100) \$3 - Sandy (100) \$4 - Sandy (100) \$5	y were obsection of control of co	erved. Infirm the ion: PL=Po Mottle %	e absence of in re Lining, M=Matr is Type	Location	FSL FS FS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils¹ (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18 NRCS Hydi	No primary iption (Description, D=Deption) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov	cument the independence of	y were obsection of control of co	erved. Infirm the ion: PL=Po Mottle %	e absence of in re Lining, M=Matr is Type	Location	FSL FS FS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov.	cument the indered/Coated Sand Color of the indered Sand Solution of the indered Sand Color of the indered Sand Color of the indered Sand Solution of the indered Sand Color of the indered Sand Color of the indered Sand Color of the indered Sand Solution of the indered Sand Solution of the indered Sand Color of the indered Sand Color of the indered Sand Solution of the	icator or co Grains; Locati (Moist) Inot present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface	mfirm the ion: PL=Po Mottle % it):	e absence of in re Lining, M=Matr is Type	Location	FSL FS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reducd	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material	C Soils (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	No primary iption (Description) Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifice A6 - 1 cm Mu A11 - Deplete	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov.	cument the indered/Coated Sand % Color (000 80 80 80 80 80 80 80 80 80 80 80 80	icator or co Grains; Locati (Moist) Inot present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface Id Dark Surface Id Dark Surface	mfirm the ion: PL=Po Mottle % it):	e absence of in re Lining, M=Matr is Type	Location	Indicators f FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F I F8 - Red uc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth ne etion, RM=Reduced Me Matrix Color (Moist) 5/2 6/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to do atrix, CS=Cov.	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$\int 55 - Sandy F \\ \$\int 56 - Stripper \\ \$\int 75 - Deplete \\ \$\int 75 - Deplete \\ \$\int 8 - Redox I \\ \$\int 78 - Redox I \\ \$\int 8 -	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface d Derressions	months and the control of the contro	e absence of in re Lining, M=Matr is Type	Location	Indicators f FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F I F8 - Red uc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descritation, D=Depl Hue_10YR Hue_10YR 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	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 5/2 6/1 4/2 Indicators (chairpedon stic on Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface aucky Mineral	eeded to do atrix, CS=Covi	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$\int 55 - Sandy F \\ \$\int 56 - Stripper \\ \$\int 75 - Deplete \\ \$\int 75 - Deplete \\ \$\int 8 - Redox I \\ \$\int 78 - Redox I \\ \$\int 8 -	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface d Derressions	months and the control of the contro	e absence of in re Lining, M=Matr is Type	Location	Indicators f FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F I F8 - Red uc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18 NRCS Hydi	No primary iption (Descritation, D=Depl Hue_10YR Hue_10YR 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	be to the depth ne etion, RM=Reduced Me Matrix Color (Moist) 5/2 6/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to do atrix, CS=Covi	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$\int 55 - Sandy F \\ \$\int 56 - Stripper \\ \$\int 75 - Deplete \\ \$\int 75 - Deplete \\ \$\int 8 - Redox I \\ \$\int 78 - Redox I \\ \$\int 8 -	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface d Derressions	months and the control of the contro	e absence of in re Lining, M=Matr is Type	Location	Indicators f FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F I F8 - Red uc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	Hue 10YR Hue	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (chairpedon Stic on Sulfide Layers (LRR F) ot (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRF Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF)	eeded to do atrix, CS=Coving 11 8 2 11 11 11 11 11 11 11 11 11 11 11 11 1	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$\int 55 - Sandy F \\ \$\int 56 - Stripper \\ \$\int 75 - Deplete \\ \$\int 75 - Deplete \\ \$\int 8 - Redox I \\ \$\int 78 - Redox I \\ \$\int 8 -	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface d Derressions	months and the control of the contro	e absence of in re Lining, M=Matr is Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Redu C TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression P	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 5-9 9-18 NRCS Hydi	No primary Iption (Description) Iption (Description) Intration, D=Depleter Intration, D=Depleter Intration, D=Depleter Intration, D=Depleter Intration, D=Depleter Intration In	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (chairpedon Stic on Sulfide Layers (LRR F) ot (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRF Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF)	eeded to do atrix, CS=Coving 11 8 2 11 11 11 11 11 11 11 11 11 11 11 11 1	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$\int 55 - Sandy F \\ \$\int 56 - Stripper \\ \$\int 75 - Deplete \\ \$\int 75 - Deplete \\ \$\int 8 - Redox I \\ \$\int 78 - Redox I \\ \$\int 8 -	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface d Derressions	months and the control of the contro	e absence of in re Lining, M=Matr is Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Redu C TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Led Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	Hue 10YR Hue	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (chairpedon Stic on Sulfide Layers (LRR F) ot (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRF Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF)	eeded to do atrix, CS=Coving 11 8 2 11 11 11 11 11 11 11 11 11 11 11 11 1	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$\int 55 - Sandy F \\ \$\int 56 - Stripper \\ \$\int 75 - Deplete \\ \$\int 75 - Deplete \\ \$\int 8 - Redox I \\ \$\int 78 - Redox I \\ \$\int 8 -	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface d Derressions	months and the control of the contro	e absence of in re Lining, M=Matr is Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Redu C TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression P	C Soils ¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	No primary Iption (Description (Description) Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifice A1 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (chairpedon Stic on Sulfide Layers (LRR F) ot (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRF Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF)	eeded to do atrix, CS=Coving 11 8 2 11 11 11 11 11 11 11 11 11 11 11 11 1	cument the indered/Coated Sand % Color (000 80	y were observed icator or co Grains; Location (Moist) Moist) Inot present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface I Dark Surface Depressions Italians Depress	months and the served. In the served. Mottle Mottle Served. Mottle Served. Mottle Served. Mottle Served. Mottle Served. Serve	e absence of in re Lining, M=Matr rs Type	Location	Indicators of hunless disturbed	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression P	C Soils ¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	No primary Iption (Description (Description) Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifice A1 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (chairpedon Stic on Sulfide Layers (LRR F) ot (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRF Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF)	eeded to do atrix, CS=Coving 11 8 2 11 11 11 11 11 11 11 11 11 11 11 11 1	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are \$\int 55 - Sandy F \\ \$\int 56 - Stripper \\ \$\int 75 - Deplete \\ \$\int 75 - Deplete \\ \$\int 8 - Redox I \\ \$\int 78 - Redox I \\ \$\int 8 -	y were observed icator or co Grains; Location (Moist) Moist) Inot present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface I Dark Surface Depressions Italians Depress	months and the served. In the served. Mottle Mottle Served. Mottle Served. Mottle Served. Mottle Served. Mottle Served. Serve	e absence of in re Lining, M=Matr is Type	Location	Indicators of hunless disturbed	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression P	C Soils ¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	Hue_10YR Hue_10YR Hue_10YR 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	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LIC leyed Matrix	eeded to do atrix, CS=Covider of the second	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are S5 - Sandy F S6 - Strippey F1 - Loamy F F3 - Deplete F6 - Redox I F16 - High P Depth	icator or co Grains; Locati (Moist) (M	Mottle Mottle in: Care and the care and th	e absence of in re Lining, M=Matr ss Type	Location Location Location	Indicators f A9 - 1 cm M A16 - Coast A7 - 1 chigh F B18 - Reduc B17 - 2 - Red P B17 - Very B17 - Ve	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression P	C Soils ¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-9 9-18 NRCS Hydi	Hue_10YR Hue_10YR Hue_10YR 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	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 6/1 4/2 Indicators (chairpedon Stic on Sulfide Layers (LRR F) ot (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRF Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF)	eeded to do atrix, CS=Covider of the second	cument the indered/Coated Sand % Color (000) 300 200 000 indicators are S5 - Sandy F S6 - Strippey F1 - Loamy F F3 - Deplete F6 - Redox I F16 - High P Depth	icator or co Grains; Locati (Moist) (M	Mottle Mottle in: Care and the care and th	e absence of in re Lining, M=Matr ss Type	Location Location Location	Indicators f A9 - 1 cm M A16 - Coast A7 - 1 chigh F B18 - Reduc B17 - 2 - Red P B17 - Very B17 - Ve	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression P	C Soils ¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-m1				
					<u> </u>				
VEGETATIO		e non-native	species.)						
Tree Stratum (Plot size: 30 ft. radius)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	30	Y	FAC					
2.	Quercus macrocarpa	15	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 5 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)				
7.					· · ·				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
10.	_ Total Cover =	45			FACW spp. 7 x 2 = 14				
	Total Cover =	70	_						
Carling/Obs.b	Starture (Diet sines, 45 ft andisse)				··· ———				
	Stratum (Plot size: 15 ft. radius)	45	V	EACH	FACU spp. 60 x 4 = 240				
1.	Quercus macrocarpa	15	Y	FACU	UPL spp. <u>35</u> x 5 = <u>175</u>				
2.	Populus tremuloides	5	N	FAC					
3.	Cornus alba	5	N	FACW	Total 144 (A) 555 (B)				
4.	Corylus americana	5	N	UPL					
5.					Prevalence Index = B/A = 3.854				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	30			Prevalence Index is ≤ 3.0 *				
			_		Morphological Adaptations (Explain) *				
Horb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Carex pensylvanica	30	Υ	NI	Frobletti Hydrophytic Vegetation (Explain)				
2.		15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
	Pteridium aquilinum				present, unless disturbed or problematic.				
3.	Geum aleppicum	10	N	FACU					
4.	Veronicastrum virginicum	5	N	FAC	Definitions of Vegetation Strata:				
5.	Solidago canadensis	5	N	FACU	_				
6	Zizia aurea	2	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Thalictrum dioicum	2	N	FACW	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.				
10.	Total Cover =	60							
	Total Cover –	08	_						
Manda Na Ch	esture (Diet sine) 20 ft andius)								
	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.				_					
	Total Cover =	0							
Remarks: Vegetation is dominated by quaking aspen and bur oak in the tree stratum, with a sparse mix of shrubs below. Pennsylvania sedge and bracken fern									
dominate the herbaceous layer.									
Additional Demarka									
Additional Remarks:									
L									