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February 2, 2017

Olivia Yu Environmental Specialist, District 1 New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240

Re: LPU 59 Site Assessment Report

Dear Ms. Yu:

Please find enclosed for your files copies of the following report for the Lovington Paddock Unit #59 produced water release project site.

• LPU 59 – 2016 Soil Assessment and Delineation Report, Unit G - Section 1 – Township 17 South – Range 36 East, Lea County, NM

This report was prepared by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) to document assessment activities for a release of 40 bbls of produced water from a failed valve. Soil sampling in the release area indicate that vertical and horizontal delineation of Chlorides and hydrocarbon components has been achieved at the site.

Should you have any questions regarding the content of this report, please do not hesitate to contact me. I look forward to working with you in the future.

Sincerely,

Rob Speer / Environmental Project Manager





Site Assessment Report

Lovington Paddock Unit 59 Produced Water Release Lea County, New Mexico

Chevron Environmental Management Company

GHD | 6320 Rothway Street Suite 100 Houston Texas 77040 073819 | Report No 4 | January 2017



Site Assessment Report

Lovington Paddock Unit 59 Produced Water Release Lea County, New Mexico

Chevron Environmental Management Company

Scott Foord, P.G.

Project Manager

Bernard Bockisch Senior Project Manager

GHD | 6320 Rothway, Suite 100, Houston, Texas USA 073819 | Report No 4 | January 2017



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1. Introduction

On behalf of Chevron Environmental Management Company (CEMC), GHD Services Inc. (GHD formerly Conestoga-Rovers & Associates) prepared this report summarizing site assessment activities at the Lovington Paddock Unit (LPU) 59 site (hereafter referred to as the "Site"). The Site is located approximately 5 miles southeast of Lovington in Lea County, New Mexico in Unit G, Section 1, Township 17 South, Range 36 East. The land surface is owned by the City of Lovington and the minerals are managed by the State of New Mexico. The location of the Site is identified on the vicinity map of Figure 1 and the aerial map of Figure 2. Site details are shown on Figure 3.

Monitoring well MW-1 was installed in October 2016 to assess potential groundwater impact in follow-up to previous soil analytical results collected and reported during previous assessments in 2010 through 2012 which indicated chloride concentrations extending vertically to a depth of at least 70 feet below ground surface (ft bgs).

2. Background

According to historical records provided to GHD, an estimated 40 barrels (10 barrels recovered) produced water release from a pipe in a valve box occurred at this location on June 4, 2006. The approximate affected area was estimated at 200 feet x 200 feet. According to the Petroleum Recovery Research Center database and the New Mexico Office of the State Engineer (NMOSE), the historical depth to groundwater from water wells in the immediate area averaged approximately 64 ft bgs. A water well map is provided in in Appendix B.

3. Remediation Standards

The NMOCD Ranking Criteria for soil and corresponding Recommended Remedial Action Levels (RRALs) established by NMOCD are summarized in the table below.

New Mexico Oil Conservation Division Site Assessment ¹								
Depth to Ground Water (50 ft - 99 ft)	10							
Wellhead Protection Area (>1000 ft from water source, >200 ft from domestic source)	0							
Distance to Surface Body Water (>1000 horizontal ft)	0							
Ranking Criteria Total Score	10*							
*Because the ranking criteria total score is 10, NMOCD established RRALs for soil are 10 ppm for benzene, 50 ppm for BTEX, 1000 ppm for total TPH, and 250 ppm for chlorides .								

¹ NMOCD Guidance for Remediation of Leaks, Spills and Releases, August 13, 1993

The NMOCD provides guidance for remediation of contaminants of oil field wastes or products in *Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993).* The guidance requires remediation of groundwater to the human health standards of the New Mexico Water Quality Control Commission (NMWQCC) set forth in New Mexico Administrative Code 20.6.2.3103. Standards for benzene, toluene, ethylbenzene, xylenes (BTEX) and chloride are listed below.



Analyte	NMWQCC Groundwater Standard (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62
Chloride	250

NMWQCC groundwater standards do not include total petroleum hydrocarbons (TPH).

4. Soil Assessment

Shallow soil samples were collected from the impacted area in July 2010 from six hand augered sample locations (AH-1, AH-2, AH-3, AH-4, AH-5, and AH-6) at sampling intervals of 0 to 0.5 ft bgs, and in August 2010 from six locations in a sample trench (T-1, T-2, T-3, T-4, T-5, and T-6) at sample intervals of 0 to 1 ft bgs. Sample analyses included TPH, BTEX, and chlorides from the July 2010 sampling event and chlorides only during the August 2010 sampling event. TPH and BTEX concentrations were below laboratory detection limits in the upper sample intervals from the hand augered locations (0 to 0.5 ft) and therefore were not analyzed for at the deeper intervals collected from the trench samples. Chloride results from both intervals collected at locations AH-2, AH-4, T-2, T-3, T-4, T-5, and T-6 exceeded the RRAL of 250 milligrams per kilogram (mg/kg) for chlorides.

In May 2011, GHD subcontractor Harrison Cooper, Inc. (HCI) advanced five soil borings (SB-1, SB-2, SB-3, SB-4, and SB-5) utilizing an air-rotary drilling rig to depths of 20 to 40 ft bgs, and soil samples were collected at five-foot intervals within each of the five soil borings. Samples were placed in laboratory-supplied sample containers on ice, labeled, and submitted to ALS Environmental laboratory in Houston, Texas for analysis of chlorides by EPA Method 300.0.

Laboratory analytical results indicated that the vertical extent of chloride impact was not yet defined in borings SB-2 and SB-3. On June 27, 2012, GHD and CEMC met at the NMOCD District 1 Hobbs office to discuss the path forward for the Site. The NMOCD requested that additional assessment be completed to further evaluate the vertical extent of chloride impacts.

In December 2012, under the supervision of GHD, HCI advanced two additional borings (SB-2b and SB-3b) utilizing an air-rotary drilling rig to depths of 70 ft bgs. Soil samples were collected from 40 to 70 ft bgs at 10-ft intervals in an effort to delineate the vertical extent of chloride impacts to soil. Samples were placed in laboratory-supplied sample containers on ice, labeled, and submitted to Lancaster Labs in Lancaster, Pennsylvania for analysis of chlorides by EPA Method 300.0. Groundwater was not encountered in either boring. Following completion of activities, the borings were backfilled with hydrated bentonite pellets to the ground surface.

4.1 Soil Analytical Results

Analytical results associated with the soil boring activities of 2011 and 2012 are discussed in the following section. Analytical results are presented in Table 1, shown in map view on Figure 4, and are summarized below:



- Samples from SB-1, SB-4 & SB-5 demonstrated chloride concentrations below the site specific RRAL of 250 mg/kg for chlorides to a depth of 20 feet bgs.
- Samples from SB-2 exhibited chloride concentrations above the 250 mg/kg RRAL in all sample intervals collected ranging from 9-10 ft to 39-40 ft, with concentrations ranging from 312 mg/kg (9-10 ft) to 1,260 mg/kg (19-20 ft).
- Boring SB-2b exhibited chloride concentrations exceeding the RRAL in two sample intervals (49-50 ft at 606 mg/kg and 59-60 ft at 618 mg/kg).
- Samples from SB-3 consistently exceeded the RRAL for chloride at depths extending from 9 to 20 ft bgs, with concentrations ranging from 338 mg/kg (19-20) ft to 436 mg/kg (9-10 ft).
- Boring SB-3b exhibited chloride concentrations exceeding the RRAL in all sample intervals collected (49-50 ft at 2,210 mg/kg, 59-60 ft at 1,750 mg/kg, and 69-70 ft at 1,690 mg/kg).

Laboratory analytical reports are provided in Appendix D.

5. Groundwater Assessment

Vertical delineation of chloride impact was not achieved in soil boring SB-3b at a depth of 70 ft bgs. As such, installation and sampling of a monitoring well was required to determine whether groundwater was impacted at the Site.

5.1 Monitoring Well Installation

Monitoring well MW-1 was installed on October 7, 2016 in the impacted area at a location near former SB-3b (Figure 4). MW-1 was installed east of SB-3b due to multiple above ground flowlines in the area limiting drill rig access. The groundwater gradient is believed to be west to east at the Site based on historical gauging data collected at the Lovington Water Plant Site, Case No. 1R394, OGRID No. 4323, located approximately 600 ft north of the Site.

Prior to mobilizing drilling equipment to the Site, the boring location was marked and utility notifications were submitted. The boring location was cleared with a hydroexcavator to a depth of 1.5 ft bgs before refusal was encountered in caliche soil. A mud-rotary drilling rig operated by GHD subcontractor White Drilling Company, a New Mexico-licensed water well driller, advanced the boring to a total depth of 235 ft bgs. During drilling, a GHD geologist observed soil cuttings at 10-ft intervals and recorded subsurface lithology on boring logs. No soil samples were collected for laboratory analysis. Groundwater was encountered during drilling at a depth of 101 ft bgs.

MW-1 was completed with four-inch diameter, schedule 40 polyvinyl chloride (PVC) casing, 130 ft of 0.010-inch PVC slotted screen, a 20/40 sand filter pack overlain by a bentonite seal extending up to 10 ft bgs and riser casing extending above the ground surface. The well was completed at the surface with a stick-up protective casing set in an approximate 2 ft by 2 ft concrete pad. The well was developed by bailing and pumping.

The well was developed by removal of water to clear the well casing and annulus of sediment. Turbid water was removed with a 3-inch diameter bailer. After bailing, well development was completed by pumping at 6 to 7 gallons per minute with a submersible pump. Approximately 385 gallons of water were removed during well development.



The boring log, well construction diagram, and the State Well Report are included in Appendix C. If determined necessary, the well will be professionally surveyed at a later date.

Soil cuttings, drilling fluids and well development water were contained in a lined roll-off mudbox. The drill cuttings/fluids and development water were transported as non-hazardous, exploration and production (E&P) exempt waste to a CEMC-approved disposal facility (i.e., Sundance Services, Inc. near Eunice New Mexico). Waste management documentation is provided in Appendix E.

5.2 Groundwater Sampling

Groundwater gauging was conducted and the vertical conductivity profile was assessed through the water column prior to sampling activities. Equipment was decontaminated prior to gauging or sampling. The water level was measured to the nearest hundredth of a foot and conductivity was measured at 5-ft intervals within the water column. The static water level was measured at a depth of 102.60 feet below the casing rim, which corresponds to approximately 10 feet below the top of the well screen. The results of the conductivity profile are summarized on Table 3.

The well was then sampled using a Hydrasleeve sampler. The groundwater sample was collected after the Hydrasleeve was lowered to the depth of the highest conductivity measurement (i.e., 170 ft below the casing rim). The sampler was removed from the well and the sample was placed in laboratory-supplied containers and chilled on ice in an insulated cooler. The sample was delivered under chain-of-custody documentation to Xenco Laboratories of Midland, Texas for analysis of BTEX by EPA method 8021B, TPH by Method SW8015B and chloride by EPA method 300.1.

5.3 Groundwater Analytical Results

No BTEX or TPH constituents were detected at concentrations above laboratory reporting limits. Chloride was detected at a concentration of 117 milligrams per liter (mg/L) which is below the 250 mg/L standard.

Groundwater analytical results for BTEX, TPH and chloride are summarized in Table 2 in reference to NMWQCC standards. The laboratory analytical report is provided in Appendix D.

6. Conclusions

Analytical results associated with assessment activities conducted in 2011 and 2012 indicated that the horizontal extent of chloride impact in soil had not been fully delineated. Based on recent groundwater sampling results, the vertical extent of chloride concentrations extends to at least 70 ft bgs but does not extend to groundwater which was encountered during drilling at 101 ft bgs. As such, vertical assessment of chloride concentrations appears to have been achieved at the Site.

7. Path Forward

Based on the ground water sampling results obtained from MW-1, the following tasks are recommended by GHD:

• Conduct one additional confirmation groundwater sampling event.



- If no impact to groundwater is confirmed, submit a request to the NMOCD to plug and abandon MW-1.
- Over-excavate the impacted area to a total depth of approximately 4 ft bgs. Excavation activities will be performed without compromising existing surface structures (i.e., existing flow lines, etc.).
- Transport and dispose of excavated soils as non-hazardous, E&P exempt waste to a CEMCapproved disposal facility (i.e., Sundance Services, Inc.).
- Install a 20-mil polyethylene liner in the excavated area and backfill the remaining excavation with clean materials.
- Construction-affected areas of the release site will be graded to match surface contours and seeded using Bureau of Land Management approved seed mixtures.
- Submit a final C-141 form (spill release) to the NMOCD detailing completion of work activities.

Figures



New Mexico East (US Feet)



SITE VICINITY MAP

FIGURE 1



Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation

1500ft

500

Coordinate System: NAD 1983 (2011) StatePlane-New Mexico East (US Feet)

Lat/Long: 32.8657° North, 103.3060° West



CAD File: I:\CAD\Files\07----\073819-CEMC-LPU #59\073819-00\073819-00(004)\073819-00(004)\GN-DL001.dwg



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Tables

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TABLE 1 SUMMARY OF SOIL ANALYTICAL RESULTS CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY LOVINGTON PADDOCK UNIT 59 LEA COUNTY, NEW MEXICO

			_		Ethyl-	Total	Total		TPH		
Sample ID	Depth (feet)	Date	Benzene	Toluene	benzene	Xylenes	BTEX	DRO	GRO	GRO/DRO	Chlorides
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		NMC			iation Action I	evels (Total F					
			10				50			1000	250
AH-1	0-0.5	7/6/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	<200
T-1	0.5-1	8/18/10									448
AH-2	0-0.5	7/6/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	2,910
T-2	0.5-1	8/18/10									1,620
AH-3 T-3	0-0.5 0.5-1	7/6/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	<400
		8/18/10									7,140
AH-4 T-4	0-0.5 0.5-1	7/6/10 8/18/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	2,720
											1650
AH-5 T-5	0-0.5 0.5-1	7/6/10 8/18/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	<400 515
AH-6	0.5-1	7/6/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	<200
T-6	0.5-1	8/18/10							~2.00		<200 534
SB-1	4-5	5/26/11									4.75
02 .	9-10	5/26/11									54.1
	14-15	5/26/11									104
	19-20	5/26/11									111
SB-2	4-5	5/26/11									102
	9-10	5/26/11									312
	14-15	5/26/11									706
	19-20	5/26/11									1,260
	24-25	5/26/11									1,174
	29-30	5/26/11									1,180
	34-35	5/26/11									1,140
	39-40	5/26/11									622
SB-2B	49-50	12/18/12									606
	59-60	12/18/12									618
	69-70	12/18/12									176
SB-3	4-5	5/26/11									148
	9-10	5/26/11									436
	14-15	5/26/11									390
	19-20	5/26/11									338
SB-3b	49-50	12/18/12									2,210
	59-60	12/18/12									1,750
	69-70	12/18/12									1,690
SB-4	4-5	5/26/11									70.6
	9-10	5/26/11									12.0
	14-15	5/26/11									12.0
05 -	19-20	5/26/11									12.0
SB-5	4-5	5/26/11									4.96
	9-10	5/26/11									75.2
	14-15	5/26/11									22.4
	19-20	5/26/11									49.2

Notes:

Bold concentrations above lab reporting limits.
 Highlighted cells indicated concentrations exceeding regulatory limits
 "--" indicates not analyzed or not applicable

- BTEX analyses by EPA Method 8021B.

- TPH analyzed by EPA Method SW8015B Mod.

- Chlorides analyzed by EPA Method 300.0

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS LOVINGTON PADDOCK UNIT 59 UNIT F, SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO

Well ID Date		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH GRO	TPH DRO	Chloride
NMWQCC	Standards	0.01	0.75	0.75	0.62			250
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-1	10/19/16	<0.002	<0.002	<0.002	<0.002	<1.50	<1.50	117

NOTES:

NMWQCC - New Mexico Water Quality Control Commission

'mg/L' indicates milligrams per liter

- BTEX analysis by EPA Method 8021B.

- TPH analysis by Method SW8015B.

- Chlorides analyzed by EPA Method 300.1

TABLE 3

Conductivity Profile Results 2016 LOVINGTON PADDOCK UNIT 59 UNIT F, SECTION 1-T17S-R36E, LEA COUNTY, NEW MEXICO

Well: Date:	MW-1 10/19/2016							
Depth	Conductivity	Temperature						
102.6								
105	743	19.2						
110	738	19.1						
115	741	19.0						
120	776	19.0						
125	807	19.0						
130	852	19.0						
135	846	19.0						
140	841	19.0						
145	837	19.0						
150	835	19.0						
155	857	19.0						
160	871	19.1						
165	885	19.1						
170	887	19.1						
175	884	19.2						
180	883	19.2						
185	878	19.2						
190	882	19.2						
195	878	19.4						
200	877	19.5						
205	875	19.5						
210	873	19.5						
215	867	19.5						
220	864	19.7						
225	863	19.7						
230	858	19.9						
233.06	806	19.9						

NOTES:

Depth - feet below top of casing Conductivity - microseimens per centimeter Temperature - degrees Celsius

Appendices

GHD | Chevron Environmental Management Company | Site Assessment Report | 073819 (4)

Appendix A Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

			Dal		•	e, INIVI 875		- 4								
			Kele	ease Notific	catio			ction								
					OPERATOR Initial Report Final Re											
							Contact Wayne Minchew Telephone No. 505-396-4414									
				1 88200			to: 303-396-44									
	Facility Name Lovington Paddock						2503826000	0								
Surface Ow	Surface Owner Mineral Owner								Lease N	No.						
			LOCA	N OF REI	LEASE											
Unit Letter	Section	Township	Range	Feet from the		/South Line		East/V	Vest Line	County						
G	1	175	36E					L		LEA						
		51'	La	titude		Longitud	le									
)'		NAT	TURE	OF REL	EASE									
Type of Rele	ease Produc	ed Water					Release 40 bbls	5	Volume I	Recovered	0 bbls					
Source of Re	elease Injec	tion trunk line	;				lour of Occurrent	ce		Hour of Dis	covery					
		01 0				06-04-06			06-04-06	1430						
Was Immedi	ate Notice (Yes 🗌] No 🔲 Not R	equired	If YES, To Pat Capper										
By Whom?							Hour 06-05-06 0									
Was a Water	course Read		V N	7 No.		If YES, Vo	olume Impacting	the Wate	ercourse.							
			Yes 🗵	_												
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*												
										-1230						
									20 ³¹		6					
Describe Cau	use of Probl	em and Reme	dial Actio	n Taken.*				1	N°	1	60					
Leak in pipe	at valve bo	x. where LPU	#59 tees (off 3" FG trunklir	ne.			12	v g) <i>(1)</i> , 7	ج ")				
		,						62	4	ୁ						
	A. CC / 1	1.01		· · ·				[2	Q.	<u>5.12 8</u>		5				
Describe Are	ea Affected	and Cleanup A	Action 1 al	ken.*				/:	4	3. CO	S Z	/				
								\	62		.57	,				
		way in pasture						·	515	OF OF OF OF	9V/					
Replaced nip	ople with sta	ainless steel ni	pple.													
I hereby cert	ify that the	information g	iven above	e is true and comp	olete to t	the best of my	knowledge and u	indersta	nd that pur	suant to NM	OCD r	ules and				
regulations a	all operators	are required t	o report a	nd/or file certain i	release r	notifications a	nd perform correct	ctive act	ions for rel	leases which	may e	ndanger				
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Signature:	May	And		<u>.</u>					-10	11/12	Jux	5				
Printed Nam	e: Larry R	idenour				Approved by	District Supervis	sor:	لمركانها							
						· · · · · _ · · · · · · · · · · · · ·	612-06		ENNID	NMENT	AL EI	VGINEER				
Title: Opera	tions Repre	sentative		· · · · · · ·		Approval Da	te: 00000		Expiration	Date:						
E-mail Addr	ess: Irideno	ur@chevron.c	om			Conditions of	f Approval:			Attach						
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incident - nPACO616540406 application - pPACO616540562

Appendix B Water Well Map



Appendix C MW-1 Boring Log and State Well Report

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 3

PROJECT NAME: Lovington Paddock Unit 59

PROJECT NUMBER: 73819

CLIENT: Chevron Environmental Management Company

LOCATION: Lea County, New Mexico

DRILLING COMPANY: White Drilling Company

HOLE DESIGNATION: MW-1 DATE COMPLETED: 12 October 2016 DRILLING METHOD: Mud Rotary FIELD PERSONNEL: J. Schnable

DEPTH	BEPTH STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH		Ionito	ring Well			SAMPLE			
ft BGS	STRATIONAFHIC DESCRIPTION & REWARKS	5	ft BGS				H (ft)	VAL	(%)	sf)		
					<u> </u>		DEPTH (ft)	INTERVAL	REC (%)	PP (tsf)		
	LIMESTONE, tan						ā	Z				
E I	LIMESTONE, tan		1.00									
5	CALICHE		4.00		<u> </u>	 Cement (12 bags) 						
			1			24907						
- 10												
- 15												
			ĺ									
-20												
E			1									
25	SAND, brown, with caliche fragments		25.00									
	- with caliche fragments to to 31 feet											
30	- with sandstone to 44 feet											
- 35	- brown and tan to 44 feet											
- 33												
40												
45	- brown											
			49.00			 4-inch SCH 40 PVC riser Hole Plug Bentonite 						
- 50	SANDSTONE, brown - pink-brown to 55 feet		+0.00			Bentonite Chips (20 bags)						
-			55.00			24907						
- 55	SAND, brown, with layers of tan sandstone		55.00									
60			60.00									
E I	SANDSTONE, brown and tan											
65												
E												
<u></u> 70												
5 - 75												
80												
85												
B 90												
188 												
				<u></u> ∃								
	NOTES: Stratigraphy descriptions are based on drill cu WATER FOUND ♀ 10/10/16	ittings.										

This log should not be used separately from the original report.

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 3

PROJECT NAME: Lovington Paddock Unit 59

PROJECT NUMBER: 73819

CLIENT: Chevron Environmental Management Company

LOCATION: Lea County, New Mexico

DRILLING COMPANY: White Drilling Company

HOLE DESIGNATION: MW-1 DATE COMPLETED: 12 October 2016 DRILLING METHOD: Mud Rotary FIELD PERSONNEL: J. Schnable

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Monitoring Well			SAMF	PLE	
ft BGS		ft BGS		DEPTH (ft)	INTERVAL	REC (%)	PP (tsf)	
				DEP	INTE	RE	Ы	
105 110 110 115 120 125	SAND, brown, with layers of brown and tan sandsone CLAYEY SAND, brown SANSTONE, brown	110.00 112.00 117.00						
130 135								
140	SAND, brown, with layers of brown and tan sandsone	140.00						
- 145 	- with clayey sand and sandstone layers to 170 feet							
150								
155 155								
160			Filter pack 20/40 sieve (71 bags) 4-inch SCH					
165			40 PVC					
170			screen 0.010					
170								
180								
185								
190	- with gravel up to 5 mm to 200 feet							
- 175 - 180 - 185 - 190 - 195 								
	NOTES: Stratigraphy descriptions are based on drill cuttings. WATER FOUND ♀ 10/10/16	I		I		1		

This log should not be used separately from the original report.

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 3 of 3

PROJECT NAME: Lovington Paddock Unit 59

PROJECT NUMBER: 73819

CLIENT: Chevron Environmental Management Company

LOCATION: Lea County, New Mexico

DRILLING COMPANY: White Drilling Company

HOLE DESIGNATION: MW-1 DATE COMPLETED: 12 October 2016 DRILLING METHOD: Mud Rotary FIELD PERSONNEL: J. Schnable

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	DN & REMARKS DEPTH		SAMPLE				
ft BGS		ft BGS		(¥)	VAL	(%	(tsf)	
				DEPTH (ft)	INTERVAL	REC (%)	PP (t	
_	- with clayey sand to 216 feet			ā	Z		_	
E								
205								
210 								
215								
E	- with gravel	218.00						
220	CLAYEY SAND, red-brown, with pea gravel							
225	GRAVEL, vellow-green, white, brick red;	226.00						
	GRAVEL, yellow-green, white, brick red; granules and pebbles up to 15 mm diameter, mostly quartzite, very poorly cemented	230.00						
	SILTY CLAY, gray-brown							
235								
			filled with cuttings					
240	END OF BOREHOLE @ 240.0ft BGS	240.00	WELL DETAILS					
_ 245			Screened interval: 90.00 to 230.00ft BGS					
			Length: 140ft					
250			Slot Size: 0.010 Material: PVC					
E			Seal: 10.00 to 85.00ft BGS					
255			Material: Bentonite 3/8-inch chips Sand Pack:					
260			85.00 to 240.00ft BGS					
			Material: 20/40 sieve sand					
265			BOREHOLE DIAMETER 7.875					
Ē								
270								
275								
280								
285								
2								
3⊨ 5−295								
280	NOTES: Stratigraphy descriptions are based on drill cuttings.							
	WATER FOUND $\[mathcal{L}]$ 10/10/16							

This log should not be used separately from the original report.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

7		MBER (WELI	L NUMBER)				OSE FILE NUM	MBER(S)			
JOL	MW-1 WELL OWN	D MAX (P/O)					L-14207 PHONE (OPTI	ONAL)			
CAT		Midcontir	pontIP				PHONE (OP II	UNAL)			
LO							01771		CTAT		ZIP
1. GENERAL AND WELL LOCATION	and the second second second	ER MAILING th Street	ADDRESS RM 07086				Houston	Г	sтаті ГХ	7700	
QN	WELL		DEGREES		SECOND	S					
ΓV	LOCATIO	N LATI	TUDE 32	51	56.81	Ν		REQUIRED: ONE TENT	TH OF A	SECOND	
LERA	(FROM GP	S) LONG	_{GITUDE} 103	18	21.40	W	* DATUM REG	QUIRED: WGS 84			
GEN	DESCRIPTION	N RELATING WI	ELL LOCATION TO STREET	ADDRESS AND COMMO	N LANDMARKS - PLS	S (SECTION, T	OWNSHJIP, RANG	E) WHERE AVAILABLE			
1.	LPU 59										
	LICENSE NU		NAME OF LICENSED	DRILLER				NAME OF WELL DRI White Drilling C			
	WD-1456		John W. White								
	DRILLING S' 10/7/201			DEPTH OF COMPLETE 240.0	D WELL (FT)	BORE HOI	LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCC	DUNTERED (FI)
7	COMPLETEI	O WELL IS:	O ARTESIAN	O DRY HOLE	SHALLOW (UNCO	ONFINED)		STATIC WATER LEV	EL IN C	OMPLETED W	ELL (FT)
ATIO	DRILLING F	LUID:	C AIR	🖲 мud	ADDITIVES – SPE	ECIFY:		I			
RM	DRILLING M	ETHOD:	C ROTARY	C HAMMER C	CABLE TOOL	C OTHE	R – SPECIFY:				
NFO	DEPTH	(feet bgl)	BORE HOLE	CASING MATER			ASING	CASING	CAS	SING WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM	TO	DIAM (inches)	GRAI (include each cas) note sections	ing string, and	CON	VECTION YPE	INSIDE DIAM. (inches)	TH	IICKNESS (inches)	SIZE (inches)
& C/	0.0	90.0	7 7/8	Sch. 40 PVC Rise	er	Threads	5	4.0	1/4	u	
DN	90.0	230.0	7 7/8	Sch. 40 PVC Scr	een	Threads	5	4.0	1/4	II	.010
LLI											
DRI											
5											
	DEPTH	(feet bgl)	BORE HOLE	I IST ANN	JULAR SEAL MA	ATERIAL 4	AND	AMOUNT	 	METHO	
F	FROM	TO	DIAM. (inches)		CK SIZE-RANG			(cubic feet)		PLACE	
RIA	235.0	85.0	7 7/8	20/40 Sand				60/Sacks		Handmix	
ATE	85.0	10.0	77/8	Bentonite Chip	S			20/Sacks		Handmix	
RM	10.0	0.0	77/8	Cement				12/Sacks		Handmix	
ANNULAR MATERIAL								Jan 18 18	N. No.		
NN		·						Concelle States			
3. Al								3			
			-								
FOR	OSE INTER	NAL USE		L			WR-2	0 WELL RECORD a	& LOG	(Version 06/	08/2012)
	E NUMBER				POD NUMBER			NUMBER			
LOC	ATION				L					PAGI	E 1 OF 2

	DEPTH (feet bgl)	THICKNESS		ID TYPE OF MATERIAL ENCOUN		WATER	ESTIMATED YIELD FOR
	FROM	ТО	(feet)		ER-BEARING CAVITIES OR FRAC oplemental sheets to fully describe a		BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
	0.0	.5	.5	Brown clay w/cal	iche mix	CY © N		
	.5	4.0	3.5	Tan limestone			CY © N	
	4.0	25.0	21.0	Caliche		CY ON		
	25.0	31.0	6.0	Brown sand w/ca	liche	OY ON		
	31.0	34.0	3.0	Brown sand w/sa	ndstone		OY ON	
H	34.0	44.0	10.0	Brown and tan sa	nd/sandstone		OY ON	
4. HYDROGEOLOGIC LOG OF WELL	44.0	49.0	5.0	Brown sand			OY © N	
OF	49.0	50.0	1.0	Brown sandstone	w/layers of brown sand		OY ON	
LOG	50.0	55.0	5.0	Pinkish brown saı	ndstone "firm"		OY ON	
SIC	55.0	60.0	5.0	Brown sand w/tai	n sandstone mixed		CYON	
LOC	60.0	110.0	50.0	Brown and tan sa	ndstone		O ^Y O ^N	
GEO	110.0	112.0	2.0	Brown sand w/tar	n and brown sandstone		O ^Y O ^N	
DRO	112.0	117.0	5.0	Brown clayey san	d		OY ON	
НУІ	117.0	140.0	23.0	Brown sandstone			O ^Y O ^N	
4.	140.0	170.0	30.0	Brown sand/claye	ey sand w/sandstone steaks		O ^Y O ^N	
	170.0	190.0	20.0	Brown sand			O ^Y C ^N	
	190.0	200.0	10.0	Brown sand w/sm	all gravel		© Y O N	
	200.0	216.0	16.0	Brown sand/claye	ey sand		© Y C N	
	216.0	218.0	2.0	Brown sand w/gra	avel		O ^Y C ^N	0
	218.0	226.0	8.0	Reddish brown cl	ayey sand w/small gravel	5	O ^Y O ^N	
	226.0	240.0	14.0	Gravel/grayish bro	own clay/clayey sand		O ^Y O ^N	
5 - <u>5</u> 2013	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA: 🔿 PUMP		TAL ESTIMATED	
	O AIR LIFT	г Ов	BAILER O	OTHER - SPECIFY:			ELL YIELD (gpm):	
NOIS	WELL TEST				A COLLECTED DURING WELL T IOWING DISCHARGE AND DRAW			
	MISCELLAN	VEOUS INF	ORMATION:					
PER								
TEST; RIG SUPERV	Fill from 2	35'-240' w	/ith soil cuttin	gs				
; RIG								
EST	PRINT NAM	E(S) OF DR	ILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVISION OF	WELL CONSTRU	UCTION OTHER TH	AN LICENSEE:
5.1								
	THE UNDER	SIGNED H	EREBY CERTIF	IES THAT. TO THE B	EST OF HIS OR HER KNOWLEDG	E AND BELIEF. T	THE FOREGOING IS	A TRUE AND
RE	CORRECT R	ECORD OF	THE ABOVE D	ESCRIBED HOLE AN	D THAT HE OR SHE WILL FILE T PLETION OF WELL DRILLING:	HIS WELL RECO	RD WITH THE STAT	E ENGINEER
ATU	THE HELL			O DAUS AFTER COM	PLETION OF WELL DRILLING.			
SIGNATURE				S		1/2	.21.16	
6.S		01001ATI				_10		
100		SIGNATU	JKE OF DRILLE	R / PRINT SIGNEE	NAME		DATE	
FOR	OSE INTERN	IAL USE				WR-20 WELL R	ECORD & LOG (Ver	sion 06/08/2012)
	NUMBER				POD NUMBER	TRN NUMBER		
LOC	ATION							PAGE 2 OF 2

Appendix D Certified Analytical Reports



20-Jun-2011

James Ornelas Conestoga-Rovers & Associates 2135 S Loop 250 West Midland, TX 79703

Tel: (412) 686-0086 Fax: (432) 686-0186

Re: Lovington Paddock #59

Work Order: 1106023

Dear James,

ALS Environmental received 40 samples on 01-Jun-2011 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 41.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

atricia L. Lynch

Electronically approved by: Makenzie L. Henderson

Patricia L. Lynch Project Manager



ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887 BMTHSPVQVVTB-DPSQ!!QbsubgtuifEMTMbcpsbupszHspvq!!BDbnqcfmtCspuifstMpjjteDpnqboz

Environmental 💭

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client:	Conestoga-Rovers & Associates
Project:	Lovington Paddock #59
Work Order:	1106023

Work Order Sample Summary

	Lab Samp II	<u>Client Sample ID</u>	Matrix	Tag Number	Collection Date	Date Received	Hold
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1106023-01	LPU#59 SB-1 4'-5'					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		LBU#59 SB-1 9'-10'			5/26/2011 15:12		
1106023-04 LPU#59 SB-1 19-20 Soil 5/26/2011 15:16 6/1/2011 09:00 1 1106023-05 LPU#59 SB-1 24-25' Soil 5/26/2011 15:22 6/1/2011 09:00 1 1106023-06 LPU#59 SB-1 34-35' Soil 5/26/2011 15:22 6/1/2011 09:00 1 1106023-07 LPU#59 SB-1 34-35' Soil 5/26/2011 15:22 6/1/2011 09:00 1 1106023-08 LPU#59 SB-2 45' Soil 5/26/2011 15:34 6/1/2011 09:00 1 1106023-10 LPU#59 SB-2 9:10' Soil 5/26/2011 15:36 6/1/2011 09:00 1 1106023-11 LPU#59 SB-2 9:10' Soil 5/26/2011 15:44 6/1/2011 09:00 1 1106023-12 LPU#59 SB-2 24'-25' Soil 5/26/2011 15:44 6/1/2011 09:00 1 1106023-15 LPU#59 SB-2 39:40' Soil 5/26/2011 15:44 6/1/2011 09:00 1 1106023-17 LPU#59 SB-3 44-15' Soil 5/26/2011 15:46 6/1/2011 09:00 1 1106023-17 LPU#59 SB-3 14-15' Soil 5/26/2011 15:46 6/1/2011 09:00 1 1106023-17 LPU#59 SB-3 14'-15' Soil							
1106023-05 LPU#59 SB-1 24-25' Soil 5/26/2011 15:18 6/1/2011 09:00 I 1106023-06 LPU#59 SB-1 34-35' Soil 5/26/2011 15:24 6/1/2011 09:00 I 1106023-08 LPU#59 SB-1 34-35' Soil 5/26/2011 15:24 6/1/2011 09:00 I 1106023-00 LPU#59 SB-2 4-5' Soil 5/26/2011 15:34 6/1/2011 09:00 I 1106023-10 LPU#59 SB-2 14-15' Soil 5/26/2011 15:38 6/1/2011 09:00 I 1106023-12 LPU#59 SB-2 14-15' Soil 5/26/2011 15:38 6/1/2011 09:00 I 1106023-13 LPU#59 SB-2 14-15' Soil 5/26/2011 15:34 6/1/2011 09:00 I 1106023-14 LPU#59 SB-2 14-15' Soil 5/26/2011 15:44 6/1/2011 09:00 I 1106023-15 LPU#59 SB-2 34-35' Soil 5/26/2011 15:46 6/1/2011 09:00 I 1106023-16 LPU#59 SB-3 4-35' Soil 5/26/2011 15:46 6/1/2011 09:00 I 1106023-17 LPU#59 SB-3 4-35' Soil 5/26/2011 15:46 6/1/2011 09:00 I 1106023-17 LPU#59 SB-3 4-35' Soil							
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1106023-11LPU#59SB-2 14'-15'Soil $5/26/2011 15:38$ $6/1/2011 09:00$ 1106023-12LPU#59SB-2 19'-20'Soil $5/26/2011 15:40$ $6/1/2011 09:00$ 1106023-13LPU#59SB-2 24'-25'Soil $5/26/2011 15:42$ $6/1/2011 09:00$ 1106023-14LPU#59SB-2 34'-35'Soil $5/26/2011 15:46$ $6/1/2011 09:00$ 1106023-15LPU#59SB-2 34'-35'Soil $5/26/2011 15:46$ $6/1/2011 09:00$ 1106023-16LPU#59SB-3 24'-5'Soil $5/26/2011 15:46$ $6/1/2011 09:00$ 1106023-17LPU#59SB-3 4'-5'Soil $5/26/2011 16:06$ $6/1/2011 09:00$ 1106023-18LPU#59SB-3 4'-5'Soil $5/26/2011 16:06$ $6/1/2011 09:00$ 1106023-19LPU#59SB-3 19'-20'Soil $5/26/2011 16:06$ $6/1/2011 09:00$ 1106023-21LPU#59SB-3 24'-25'Soil $5/26/2011 16:06$ $6/1/2011 09:00$ 1106023-22LPU#59SB-3 39'-40'Soil $5/26/2011 16:16$ $6/1/2011 09:00$ 1106023-24LPU#59SB-3 39'-40'Soil $5/26/2011 16:55$ $6/1/2011 09:00$ 1106023-25LPU#59SB-4 4'-5'Soil $5/26/2011 16:54$ $6/1/2011 09:00$ 1106023-26LPU#59SB-4 4'-5'Soil $5/26/2011 16:54$ $6/1/2011 09:00$ 1106023-27LPU#59SB-4 4'-5'Soil $5/26/2011 16:54$ $6/1/2011 09:00$ 1106023-28LPU#59SB-4 4'-5'Soil $5/26/2011 16:56$ $6/1/2011 09:00$ <t< td=""><td>1106023-09</td><td>LPU#59 SB-2 4'-5'</td><td>Soil</td><td></td><td>5/26/2011 15:34</td><td>6/1/2011 09:00</td><td></td></t<>	1106023-09	LPU#59 SB-2 4'-5'	Soil		5/26/2011 15:34	6/1/2011 09:00	
1106023-12 LPU#59 Soil 5/26/2011 6/1/2011 09:00 1106023-13 LPU#59 SB-2 24'-25' Soil 5/26/2011 15:42 6/1/2011 09:00 10 1106023-14 LPU#59 SB-2 29'-30' Soil 5/26/2011 15:44 6/1/2011 09:00 10 1106023-15 LPU#59 SB-2 34'-35' Soil 5/26/2011 15:46 6/1/2011 09:00 10 1106023-16 LPU#59 SB-3 3'-5' Soil 5/26/2011 16:00 6/1/2011 09:00 10 1106023-18 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:00 6/1/2011 09:00 10 1106023-20 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-22 LPU#59 SB-3 39'-40' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-22 LPU#59 SB-3 39'-40' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-22 LPU#59 SB-4 4'-5'	1106023-10	LPU#59 SB-2 9'-10'	Soil		5/26/2011 15:36	6/1/2011 09:00	
1106023-13 LPU#59 SB-2 24'-25' Soil 5/26/2011 15:42 6/1/2011 09:00 1106023-14 LPU#59 SB-2 29'-30' Soil 5/26/2011 15:44 6/1/2011 09:00 1106023-15 LPU#59 SB-2 39'-40' Soil 5/26/2011 15:46 6/1/2011 09:00 1106023-16 LPU#59 SB-2 39'-40' Soil 5/26/2011 15:48 6/1/2011 09:00 1106023-17 LPU#59 SB-3 4'-5' Soil 5/26/2011 16:00 6/1/2011 09:00 1106023-18 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:04 6/1/2011 09:00 1106023-20 LPU#59 SB-3 19'-20' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-21 LPU#59 SB-3 19'-20' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-22 LPU#59 SB-3 39'-40' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-23 LPU#59 SB-4 39'-40' Soil 5/26/2011 16:51 6/1/2011 09:00 1106023-24 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:54 <td>1106023-11</td> <td>LPU#59 SB-2 14'-15'</td> <td>Soil</td> <td></td> <td>5/26/2011 15:38</td> <td>6/1/2011 09:00</td> <td></td>	1106023-11	LPU#59 SB-2 14'-15'	Soil		5/26/2011 15:38	6/1/2011 09:00	
1106023-14LPU#59SB-229-30'Soil5/26/20115/446/1/201109:001106023-15LPU#59SB-239'-40'Soil5/26/201115:466/1/201109:001106023-16LPU#59SB-339'-40'Soil5/26/201115:466/1/201109:001106023-17LPU#59SB-334'-5'Soil5/26/201116:006/1/201109:001106023-18LPU#59SB-334'-5'Soil5/26/201116:006/1/201109:001106023-19LPU#59SB-314'-15'Soil5/26/201116:046/1/201109:001106023-20LPU#59SB-324'-25'Soil5/26/201116:066/1/201109:001106023-21LPU#59SB-324'-25'Soil5/26/201116:106/1/201109:001106023-22LPU#59SB-329'-30'Soil5/26/201116:126/1/201109:001106023-23LPU#59SB-44'-5'Soil5/26/201116:126/1/201109:001106023-24LPU#59SB-49'-10'Soil5/26/201116:506/1/201109:001106023-25LPU#59SB-49'-10'Soil5/26/201116:566/1/201109:001106023-26LPU#59SB-419'-20'Soil5/26/201116:566/1/201109:001106023-27LPU#59SB-419'-20'Soil5/26/201116:566/1/2	1106023-12	LPU#59 SB-2 19'-20'	Soil		5/26/2011 15:40	6/1/2011 09:00	
1106023-15 LPU#59 SB-2 34'-35' Soil 5/26/2011 15:46 6/1/2011 09:00 1106023-16 LPU#59 SB-3 34'-5' Soil 5/26/2011 15:48 6/1/2011 09:00 1106023-17 LPU#59 SB-3 4'-5' Soil 5/26/2011 16:00 6/1/2011 09:00 1106023-18 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:02 6/1/2011 09:00 1106023-19 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:04 6/1/2011 09:00 1106023-20 LPU#59 SB-3 19'-20' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-21 LPU#59 SB-3 24'-25' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-22 LPU#59 SB-3 24'-25' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-23 LPU#59 SB-3 34'-35' Soil 5/26/2011 16:16 6/1/2011 09:00 1106023-24 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:50 6/1/2011 09:00 1106023-22 1106023-25 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-23 1106023-24 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-32 1106023-25 <td>1106023-13</td> <td>LPU#59 SB-2 24'-25'</td> <td>Soil</td> <td></td> <td>5/26/2011 15:42</td> <td>6/1/2011 09:00</td> <td></td>	1106023-13	LPU#59 SB-2 24'-25'	Soil		5/26/2011 15:42	6/1/2011 09:00	
1106023-16 LPU#59 SB-2 39'-40' Soil 5/26/2011 15:48 6/1/2011 09:00 1106023-17 LPU#59 SB-3 4'-5' Soil 5/26/2011 16:00 6/1/2011 09:00 1106023-18 LPU#59 SB-3 9'-10' Soil 5/26/2011 16:00 6/1/2011 09:00 1106023-19 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:04 6/1/2011 09:00 1106023-20 LPU#59 SB-3 19'-20' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-21 LPU#59 SB-3 24'-25' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-22 LPU#59 SB-3 34'-35' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-23 LPU#59 SB-3 39'-40' Soil 5/26/2011 16:12 6/1/2011 09:00 1106023-24 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:50 6/1/2011 09:00 1106023-25 1106023-25 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-22 1106023-26 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-22 1106023-29 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-23	1106023-14	LPU#59 SB-2 29'-30'	Soil		5/26/2011 15:44	6/1/2011 09:00	
1106023-17 LPU#\$9 SB-3 4'-5' Soil 5/26/2011 16:00 6/1/2011 09:00 1106023-18 LPU#\$9 SB-3 9'-10' Soil 5/26/2011 16:02 6/1/2011 09:00 1106023-19 LPU#\$9 SB-3 14'-15' Soil 5/26/2011 16:04 6/1/2011 09:00 1106023-20 LPU#\$9 SB-3 19'-20' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-21 LPU#\$9 SB-3 24'-25' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-22 LPU#\$9 SB-3 29'-30' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-23 LPU#\$9 SB-3 34'-35' Soil 5/26/2011 16:12 6/1/2011 09:00 1106023-24 LPU#\$9 SB-3 39'-40' Soil 5/26/2011 16:12 6/1/2011 09:00 1106023-25 LPU#\$9 SB-4 39'-40' Soil 5/26/2011 16:50 6/1/2011 09:00 1106023-26 LPU#\$9 SB-4 4'-5' Soil 5/26/2011 16:54 6/1/2011 09:00 1106023-27 LPU#\$9 SB-4 14'-15' Soil 5/26/2011 16:54 6/1/2011 09:00 1106023-28 LPU#\$9 SB-4 44'-5' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-30 LPU#\$9 SB-4 44'-5' Soil 5/26/2011	1106023-15	LPU#59 SB-2 34'-35'	Soil		5/26/2011 15:46	6/1/2011 09:00	
1106023-18 LPU#59 SB-3 9'-10' Soil 5/26/2011 16:02 6/1/2011 09:00 1106023-19 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:04 6/1/2011 09:00 1106023-20 LPU#59 SB-3 19'-20' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-21 LPU#59 SB-3 24'-25' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-22 LPU#59 SB-3 29'-30' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-23 LPU#59 SB-3 4'-35' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-24 LPU#59 SB-3 4'-5' Soil 5/26/2011 16:12 6/1/2011 09:00 1106023-25 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:54 6/1/2011 09:00 1106023-27 LPU#59 SB-4 14'-15' Soil 5/26/2011 16:54 6/1/2011 09:00 1106023-28 LPU#59 SB-4 14'-15' Soil 5/26/2011 16:54 6/1/2011 09:00 1106023-29 LPU#59 SB-4 14'-15' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-29 LPU#59 SB-4 34'-35' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-30 LPU#59 SB-4 34'-35' Soil 5/26/201	1106023-16	LPU#59 SB-2 39'-40'	Soil		5/26/2011 15:48	6/1/2011 09:00	
1106023-19 LPU#59 SB-3 14'-15' Soil 5/26/2011 16:04 6/1/2011 09:00 1106023-20 LPU#59 SB-3 19'-20' Soil 5/26/2011 16:06 6/1/2011 09:00 1106023-21 LPU#59 SB-3 24'-25' Soil 5/26/2011 16:08 6/1/2011 09:00 1106023-22 LPU#59 SB-3 29'-30' Soil 5/26/2011 16:10 6/1/2011 09:00 1106023-23 LPU#59 SB-3 39'-40' Soil 5/26/2011 16:12 6/1/2011 09:00 1106023-24 LPU#59 SB-3 39'-40' Soil 5/26/2011 16:12 6/1/2011 09:00 1106023-25 LPU#59 SB-4 4'-5' Soil 5/26/2011 16:50 6/1/2011 09:00 1106023-26 LPU#59 SB-4 9'-10' Soil 5/26/2011 16:52 6/1/2011 09:00 1106023-27 LPU#59 SB-4 14'-15' Soil 5/26/2011 16:54 6/1/2011 09:00 1106023-28 LPU#59 SB-4 14'-15' Soil 5/26/2011 16:58 6/1/2011 09:00 1106023-29 LPU#59 SB-4 14'-15' Soil 5/26/2011 16:58 6/1/2011 09:00 1106023-30 LPU#59 SB-4 25' Soil 5/26/2011	1106023-17	LPU#59 SB-3 4'-5'	Soil		5/26/2011 16:00	6/1/2011 09:00	
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1106023-27 LPU#59 SB-4 14'-15' Soil 5/26/2011 16:54 6/1/2011 09:00 1106023-28 LPU#59 SB-4 19'-20' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-29 LPU#59 SB-4 24'-25' Soil 5/26/2011 16:58 6/1/2011 09:00 1106023-30 LPU#59 SB-4 29'-30' Soil 5/26/2011 17:00 6/1/2011 09:00 1106023-31 LPU#59 SB-4 34'-35' Soil 5/26/2011 17:02 6/1/2011 09:00 1 1106023-32 LPU#59 SB-4 39'-40' Soil 5/26/2011 17:04 6/1/2011 09:00 1 1106023-33 LPU#59 SB-5 4'-5' Soil 5/26/2011 17:20 6/1/2011 09:00 1 1106023-34 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 1 1106023-35 LPU#59 SB-5 14'-15' Soil 5/26/2011 17:24 6/1/2011 09:00 1 1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:26 6/1/2011 09:00 1 1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 1 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:30 6/1/2011 09:00 </td <td>1106023-25</td> <td>LPU#59 SB-4 4'-5'</td> <td>Soil</td> <td></td> <td>5/26/2011 16:50</td> <td>6/1/2011 09:00</td> <td></td>	1106023-25	LPU#59 SB-4 4'-5'	Soil		5/26/2011 16:50	6/1/2011 09:00	
1106023-28 LPU#59 SB-4 19'-20' Soil 5/26/2011 16:56 6/1/2011 09:00 1106023-29 LPU#59 SB-4 24'-25' Soil 5/26/2011 16:58 6/1/2011 09:00 1106023-30 LPU#59 SB-4 29'-30' Soil 5/26/2011 16:58 6/1/2011 09:00 1106023-31 LPU#59 SB-4 34'-35' Soil 5/26/2011 17:00 6/1/2011 09:00 1106023-32 LPU#59 SB-4 39'-40' Soil 5/26/2011 17:02 6/1/2011 09:00 1106023-33 LPU#59 SB-5 4'-5' Soil 5/26/2011 17:20 6/1/2011 09:00 1106023-34 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:20 6/1/2011 09:00 1106023-35 LPU#59 SB-5 14'-15' Soil 5/26/2011 17:24 6/1/2011 09:00 1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:24 6/1/2011 09:00 1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:28 6/1/2011 09:00	1106023-26	LPU#59 SB-4 9'-10'	Soil		5/26/2011 16:52	6/1/2011 09:00	
1106023-29 LPU#59 SB-4 24'-25' Soil 5/26/2011 16:58 6/1/2011 09:00 1106023-30 LPU#59 SB-4 29'-30' Soil 5/26/2011 17:00 6/1/2011 09:00 1106023-31 LPU#59 SB-4 34'-35' Soil 5/26/2011 17:02 6/1/2011 09:00 1106023-32 LPU#59 SB-4 34'-35' Soil 5/26/2011 17:02 6/1/2011 09:00 1106023-32 LPU#59 SB-4 39'-40' Soil 5/26/2011 17:04 6/1/2011 09:00 1106023-33 LPU#59 SB-5 4'-5' Soil 5/26/2011 17:20 6/1/2011 09:00 1106023-34 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 1106023-35 LPU#59 SB-5 14'-15' Soil 5/26/2011 17:24 6/1/2011 09:00 1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:26 6/1/2011 09:00 1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 1 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:30 6/1/2011 09:00 1	1106023-27	LPU#59 SB-4 14'-15'	Soil		5/26/2011 16:54	6/1/2011 09:00	
1106023-30 LPU#59 SB-4 29'-30' Soil 5/26/2011 17:00 6/1/2011 09:00 1106023-31 LPU#59 SB-4 34'-35' Soil 5/26/2011 17:02 6/1/2011 09:00 1106023-32 LPU#59 SB-4 39'-40' Soil 5/26/2011 17:04 6/1/2011 09:00 1106023-33 LPU#59 SB-5 4'-5' Soil 5/26/2011 17:20 6/1/2011 09:00 1106023-34 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 1106023-35 LPU#59 SB-5 14'-15' Soil 5/26/2011 17:24 6/1/2011 09:00 1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:26 6/1/2011 09:00 1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:28 6/1/2011 09:00	1106023-28	LPU#59 SB-4 19'-20'	Soil		5/26/2011 16:56	6/1/2011 09:00	
1106023-31 LPU#59 SB-4 34'-35' Soil 5/26/2011 17:02 6/1/2011 09:00 1106023-32 LPU#59 SB-4 39'-40' Soil 5/26/2011 17:04 6/1/2011 09:00 1106023-33 LPU#59 SB-5 4'-5' Soil 5/26/2011 17:20 6/1/2011 09:00 1106023-34 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 1106023-35 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:26 6/1/2011 09:00 1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:30 6/1/2011 09:00	1106023-29	LPU#59 SB-4 24'-25'	Soil		5/26/2011 16:58	6/1/2011 09:00	
1106023-32 LPU#59 SB-4 39'-40' Soil 5/26/2011 17:04 6/1/2011 09:00 1106023-33 LPU#59 SB-5 4'-5' Soil 5/26/2011 17:20 6/1/2011 09:00 1106023-34 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 1106023-35 LPU#59 SB-5 14'-15' Soil 5/26/2011 17:24 6/1/2011 09:00 1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:26 6/1/2011 09:00 1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:30 6/1/2011 09:00	1106023-30	LPU#59 SB-4 29'-30'	Soil		5/26/2011 17:00	6/1/2011 09:00	
1106022-32 LPU#59 SB-5 4'-5' Soil 5/26/2011 17:20 6/1/2011 09:00 1106023-33 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 1106023-35 LPU#59 SB-5 14'-15' Soil 5/26/2011 17:24 6/1/2011 09:00 1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:26 6/1/2011 09:00 1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:30 6/1/2011 09:00	1106023-31	LPU#59 SB-4 34'-35'	Soil		5/26/2011 17:02	6/1/2011 09:00	
1106023-34 LPU#59 SB-5 9'-10' Soil 5/26/2011 17:22 6/1/2011 09:00 Image: constraint of the second s	1106023-32	LPU#59 SB-4 39'-40'	Soil		5/26/2011 17:04	6/1/2011 09:00	
1106022-35 LPU#59 SB-5 14'-15' Soil 5/26/2011 17:24 6/1/2011 09:00 Image: Constraint of the second	1106023-33	LPU#59 SB-5 4'-5'	Soil		5/26/2011 17:20	6/1/2011 09:00	_
1106023-36 LPU#59 SB-5 19'-20' Soil 5/26/2011 17:26 6/1/2011 09:00 Image: Constraint of the constraint o	1106023-34	LPU#59 SB-5 9'-10'	Soil		5/26/2011 17:22	6/1/2011 09:00	
1106023-37 LPU#59 SB-5 24'-25' Soil 5/26/2011 17:28 6/1/2011 09:00 I 1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:30 6/1/2011 09:00 I	1106023-35	LPU#59 SB-5 14'-15'	Soil		5/26/2011 17:24	6/1/2011 09:00	
1106023-38 LPU#59 SB-5 29'-30' Soil 5/26/2011 17:30 6/1/2011 09:00	1106023-36	LPU#59 SB-5 19'-20'	Soil		5/26/2011 17:26	6/1/2011 09:00	
	1106023-37	LPU#59 SB-5 24'-25'	Soil		5/26/2011 17:28	6/1/2011 09:00	
1106023-39 LPU#59 SB-5 34'-35' Soil 5/26/2011 17:32 6/1/2011 09:00							
	1106023-39	LPU#59 SB-5 34'-35'	Soil		5/26/2011 17:32	6/1/2011 09:00	

Client:	Conestoga-Rovers & Associates
Project:	Lovington Paddock #59
Work Order:	1106023

Work Order Sample Summary

Lab Samp II	<u>Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received	<u>Hold</u>
1106023-40	LPU#59 SB-5 39'-40'	Soil		5/26/2011 17:34	6/1/2011 09:00	

Client:	Conestoga-Rovers & Associates	
Project: Work Order:	Lovington Paddock #59 1106023	Case Narrative

Batch 53269 Chloride: MS/MSD is for an unrelated sample.

All samples on hold for SB-2 were assigned per James Ornelas of CRA.

Date: 23-Jun-11

MOISTURE

Percent Moisture

1

Client:	Conestoga-Rovers & Ass	sociates					
Project:	Lovington Paddock #59				W	Vork Order: 1106023	
Sample ID:	LPU#59 SB-1 4'-5'					Lab ID: 1106023-0	1
Collection Date:	: 5/26/2011 03:10 PM					Matrix: SOIL	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 3	600.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
					• ··· ·· /// ··	1	0/7/0011 10.FA DNA
Chloride		4.75	J	4.9	2 mg/Kg	I	6/7/2011 10:54 PM

5.64

SW3550

0.0100 wt%

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Analyst: KAH

6/2/2011 11:30 AM

Client:	Conestoga-Rovers & As	sociates					
Project:	Lovington Paddock #59				V	Vork Order: 1106023	
Sample ID:	LBU#59 SB-1 9'-10'					Lab ID: 1106023-02	2
Collection Date:	5/26/2011 03:12 PM					Matrix: SOIL	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300	0.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride		54.1		5.	00 mg/Kg	1	6/8/2011 11:12 AM

Chioride	54.1	5.00 mg/Kg	1	6/8/2011 11:12 AM
Surr: Selenate (surr)	91.9	85-115 %REC	1	6/8/2011 11:12 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	7.75	0.0100 wt%		6/2/2011 11:30 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.
Client: C	Conestoga-Rovers & Ass	sociates						
Project: L	ovington Paddock #59				Ţ	Work Order:	1106023	
Sample ID: L	LPU#59 SB-1 14'-15'					Lab ID:	1106023-03	
Collection Date: 5	/26/2011 03:14 PM					Matrix: S	SOIL	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
ANIONS - EPA 300.	.0 (1993)			E300		Prep Date:	6/7/2011	Analyst: TDW
Chloride		104		4.9	94 mg/Kg	1		6/7/2011 11:52 PM

 Chloride
 104
 4.94 mg/Kg
 1
 6/7/2011 11:52 PM

 Surr: Selenate (surr)
 92.8
 85-115
 %REC
 1
 6/7/2011 11:52 PM

 MOISTURE
 SW3550
 Analyst: KAH

 Percent Moisture
 7.53
 0.0100 wt%
 1
 6/2/2011 11:30 AM

ANIONS - EPA 3	00 0 (1993)			E300		Pren Dat	e: 6/7/2011	Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 03:16 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-1 19'-20'					Lab ID:	1106023-04	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	ssociates						

Chloride	111	4.99 mg/Kg	1	6/8/2011 12:07 AM
Surr: Selenate (surr)	88.9	85-115 %REC	1	6/8/2011 12:07 AM
MOISTURE		SW3550		Analyst: KAH

Client:	Conestoga-Rovers & Ass	sociates					
Project:	Lovington Paddock #59				W	Vork Order: 1106023	
Sample ID:	LPU#59 SB-2 4'-5'					Lab ID: 1106023-09	9
Collection Date:	5/26/2011 03:34 PM					Matrix: SOIL	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 30	00.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
<u> </u>		102		1	95 mg/Kg	1	6/8/2011 12:21 AM
Chloride		102		7.4	Jo mg/ng		0/0/2011 12.217

Surr: Selenate (surr)	91.6	85-115 %REC	1	6/8/2011 12:21 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	4.06	0.0100 wt%	1	6/2/2011 11:30 AM

Client:	Conestoga-Rovers & As	sociates						
Project:	Lovington Paddock #59					Work Order:	1106023	
Sample ID:	LPU#59 SB-2 9'-10'					Lab ID:	1106023-10	
Collection Date:	5/26/2011 03:36 PM					Matrix:	SOIL	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
ANIONS - EPA 3	00.0 (1993)			E300		Prep Dat	e: 6/7/2011	Analyst: TDW

ANIONS - EFA 300.0 (1993)		E300			Analyst. IDW
Chloride	312	4.97 n	ng/Kg	1	6/8/2011 01:05 AM
Surr: Selenate (surr)	89.5	85-115 %	%REC	1	6/8/2011 01:05 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	7.22	0.0100 v	vt%	1	6/2/2011 11:30 AM

Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 03:38 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-2 14'-15'					Lab ID:	1106023-11	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	sociates						

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	706	4.96	mg/Kg	1	6/8/2011 01:20 AM
Surr: Selenate (surr)	92.1	85-115	%REC	1	6/8/2011 01:20 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	4.86	0.0100	wt%	1	6/2/2011 11:30 AM

ANIONS - EPA 3	00.0 (1000)			E300		Draw Dat	e: 6/7/2011	Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date	: 5/26/2011 03:40 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-2 19'-20'					Lab ID:	1106023-12	
Project:	Lovington Paddock #59)				Work Order:	1106023	
Client:	Conestoga-Rovers & As	ssociates						

				· · · · · · · · · · · · · · · · · · ·
Chloride	1,260	24.9 mg/ł	<g< b="">5</g<>	6/8/2011 12:14 PM
Surr: Selenate (surr)	97.3	85-115 %RE	EC 5	6/8/2011 12:14 PM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	4.92	0.0100 wt%	1	6/2/2011 11:30 AM

ANIONS - EPA 3				E300			: 6/16/2011	Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 03:42 PM					Matrix: S	SOIL	
Sample ID:	LPU#59 SB-2 24'-25'					Lab ID:	1106023-13	
Project:	Lovington Paddock #59)				Work Order:	1106023	
Client:	Conestoga-Rovers & As	ssociates						

ANIONS - EPA 300.0 (1993)		E300	Fiep Date. 0/10/	
Chloride	1,170	24.7 mg/	/ Kg 5	6/17/2011 11:28 AM
Surr: Selenate (surr)	102	85-115 %R	REC 5	6/17/2011 11:28 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	4.05	0.0100 wt%	% 1	6/16/2011 10:30 AM

ANIONS - EPA 3	00.0 (1993)			E300		Prep Date: 6/16/201	1 Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Collection Date:	5/26/2011 03:44 PM					Matrix: SOIL	
Sample ID:	LPU#59 SB-2 29'-30'					Lab ID: 1106023-1	4
Project:	Lovington Paddock #59					Work Order: 1106023	
Client:	Conestoga-Rovers & As	sociates					

Chloride	1,180	24.9 mg/Kg	5	6/17/2011 11:50 AM
Surr: Selenate (surr)	103	85-115 %REC	5	6/17/2011 11:50 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	7.04	0.0100 wt%	1	6/16/2011 10:30 AM

ANIONS - EPA 3	00.0 (1993)			E300		Prep Date: 6/16/2011	Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Collection Date:	5/26/2011 03:46 PM					Matrix: SOIL	
Sample ID:	LPU#59 SB-2 34'-35'					Lab ID: 1106023-15	5
Project:	Lovington Paddock #59)				Work Order: 1106023	
Client:	Conestoga-Rovers & As	ssociates					

Chloride	1,140	24.8 mg/Kg	5	6/17/2011 12:11 PM
Surr: Selenate (surr)	103	85-115 %REC	5	6/17/2011 12:11 PM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	4.74	0.0100 wt%	1	6/16/2011 10:30 AM

Client:	Conestoga-Rovers & As	ssociates						
Project:	Lovington Paddock #59					Work Order:	1106023	
Sample ID:	LPU#59 SB-2 39'-40'					Lab ID:	1106023-16	
Collection Date:	5/26/2011 03:48 PM					Matrix:	SOIL	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/16/2011	Analyst: TDW
Chloride	622	4.98	mg/Kg	1	6/16/2011 07:55 PM
Surr: Selenate (surr)	104	85-115	%REC	1	6/16/2011 07:55 PM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	3.92	0.0100	wt%	1	6/16/2011 10:30 AM

ANIONS - EPA 3	00.0 (1993)			E300		Prep Dat	e: 6/7/2011	Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 04:00 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-3 4'-5'					Lab ID:	1106023-17	
Project:	Lovington Paddock #59)				Work Order:	1106023	
Client:	Conestoga-Rovers & A	ssociates						

Chloride	148	4.94 mg/Kg	1	6/8/2011 01:49 AM
Surr: Selenate (surr)	93.1	85-115 %REC	1	6/8/2011 01:49 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	2.52	0.0100 wt%	1	6/2/2011 11:30 AM

ANIONS - EPA 3	00.0 (4002)			E300		Brop Data	e: 6/7/2011	Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 04:02 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-3 9'-10'					Lab ID:	1106023-18	
Project:	Lovington Paddock #59)				Work Order:	1106023	
Client:	Conestoga-Rovers & A	ssociates						

Chloride	436	4.98 mg/Kg	1	6/8/2011 02:03 AM
Surr: Selenate (surr)	91.7	85-115 %REC	1	6/8/2011 02:03 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	4.73	0.0100 wt%	1	6/2/2011 11:30 AM

Analyses	5/20/2011 04.04 FW	Result	Qual	Report Limit	Units	Dilution Factor	SOIL	Date Analyzed
Sample ID: Collection Date:	LPU#59 SB-3 14'-15' 5/26/2011 04:04 PM					Lab ID: Matrix:	1106023-19 SOU	
Project:	Lovington Paddock #59					Work Order:		
Client:	Conestoga-Rovers & As	sociates						

ANIONS - EPA 300.0 (1993) Chloride	390	E300 4.95 mg		6/8/2011 11:45 AM
Surr: Selenate (surr)	89.8	85-115 %R	REC 1	6/8/2011 11:45 AM
MOISTURE Percent Moisture	6.11	SW3550 0.0100 wt%	% 1	Analyst: KAH 6/2/2011 11:30 AM

Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 04:06 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-3 19'-20'					Lab ID:	1106023-20	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	sociates						

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	338	4.99 n	mg/Kg	1	6/8/2011 02:32 AM
Surr: Selenate (surr)	94.0	85-115 %	%REC	1	6/8/2011 02:32 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	6.86	0.0100 v	wt%	1	6/2/2011 11:30 AM

ANIONS - EBA 3	00.0 (4002)			E200		Bran Dat	o' 6/7/2011	Applyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 04:50 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-4 4'-5'					Lab ID:	1106023-25	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	ssociates						

ANIONS - EPA 300.0 (1993)		E300	Prep Date: 6/7/2011	Analyst: TDW
Chloride	70.6	4.90 mg/Kg	g 1	6/8/2011 02:47 AM
Surr: Selenate (surr)	93.8	85-115 %REC	C 1	6/8/2011 02:47 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	4.85	0.0100 wt%	1	6/2/2011 11:30 AM

Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 04:52 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-4 9'-10'					Lab ID:	1106023-26	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	sociates						

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	12.0	4.99 r	mg/Kg	1	6/8/2011 03:02 AM
Surr: Selenate (surr)	92.6	85-115	%REC	1	6/8/2011 03:02 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	6.07	0.0100 v	wt%	1	6/2/2011 11:30 AM

Collection Date: Analyses	5/26/2011 04:54 PM	Result	Oual	Report Limit	Units	Matrix: Dilution Factor	SOIL	Date Analyzed
Sample ID:	LPU#59 SB-4 14'-15'						1106023-27	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	sociates						

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	12.0	4.93	mg/Kg	1	6/8/2011 03:16 AM
Surr: Selenate (surr)	90.6	85-115	%REC	1	6/8/2011 03:16 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	4.88	0.0100	wt%	1	6/2/2011 11:30 AM

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Client:	Conestoga-Rovers & As	sociates						
Project:	Lovington Paddock #59					Work Order:	1106023	
Sample ID:	LPU#59 SB-4 19'-20'					Lab ID:	1106023-28	
Collection Date:	5/26/2011 04:56 PM					Matrix:	SOIL	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	12.0	4.94	mg/Kg	1	6/8/2011 04:00 AM
Surr: Selenate (surr)	90.7	85-115	%REC	1	6/8/2011 04:00 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	4.98	0.0100	wt%	1	6/2/2011 11:30 AM

ANIONS - EPA 3				E300			e: 6/7/2011	Analyst: TDW
Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date	: 5/26/2011 05:20 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-5 4'-5'					Lab ID:	1106023-33	
Project:	Lovington Paddock #59	9				Work Order:	1106023	
Client:	Conestoga-Rovers & A	ssociates						

Chloride	4.96	4.91 mg/Kg	1	6/8/2011 04:14 AM
Surr: Selenate (surr)	87.8	85-115 %REC	1	6/8/2011 04:14 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	3.05	0.0100 wt%	1	6/2/2011 11:30 AM

Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 05:22 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-5 9'-10'					Lab ID:	1106023-34	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	sociates						

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	75.2	4.98 n	mg/Kg	1	6/8/2011 04:29 AM
Surr: Selenate (surr)	89.6	85-115 %	%REC	1	6/8/2011 04:29 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	7.33	0.0100 v	wt%	1	6/2/2011 11:30 AM

Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 05:24 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-5 14'-15'					Lab ID:	1106023-35	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	sociates						

ANIONS - EPA 300.0 (1993)		E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	22.4	4.99 n	mg/Kg	1	6/8/2011 04:43 AM
Surr: Selenate (surr)	92.9	85-115 %	%REC	1	6/8/2011 04:43 AM
MOISTURE		SW3550			Analyst: KAH
Percent Moisture	6.93	0.0100 v	wt%	1	6/2/2011 11:30 AM

Analyses		Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
Collection Date:	5/26/2011 05:26 PM					Matrix:	SOIL	
Sample ID:	LPU#59 SB-5 19'-20'					Lab ID:	1106023-36	
Project:	Lovington Paddock #59					Work Order:	1106023	
Client:	Conestoga-Rovers & As	ssociates						

ANIONS - EPA 300.0 (1993)		E300	Prep Date: 6/7/201	1 Analyst: TDW
Chloride	49.2	4.99 mg	g/Kg 1	6/8/2011 04:58 AM
Surr: Selenate (surr)	92.3	85-115 %F	REC 1	6/8/2011 04:58 AM
MOISTURE		SW3550		Analyst: KAH
Percent Moisture	4.65	0.0100 wt	t% 1	6/2/2011 11:30 AM

Client:	Conestoga-Rovers & Associates
Work Order:	1106023
Project:	Lovington Paddock #59

Date: 20-Jun-11

QC BATCH REPORT

 Batch ID: 52990
 Instrument ID ICS2100

 MBLK
 Sample ID: WBLKS3-060711-52990

 Client ID:
 Run ID: ICS2

MBLK	Sample ID: WBLKS3-060711	1-52990				Units	: mg/k	٢g	Ana	lysis Date: 6/	7/2011 10	:11 PM
Client ID:		Run	ID: ICS210	D_110607B		SeqNo	: 2416	269	Prep Date: 6	/7/2011	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%F	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		U	5.0									
Surr: Sele	enate (surr)	49.01	1.0	50		0	98	85-115		0		
LCS	Sample ID: WLCSS3-060711	-52990				Units	: mg/K	٢g	Ana	lysis Date: 6/	7/2011 10	:25 PM
Client ID:		Run	ID: ICS210	D_110607B		SeqNo	: 2416	270	Prep Date: 6	/7/2011	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%F	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		200.1	5.0	200		0	100	90-110		0		
Surr: Sele	enate (surr)	48.79	1.0	50		0 9	97.6	85-115		0		
LCSD	Sample ID: WLCSDS3-0607	11-52990				Units	: mg/K	٢g	Ana	lysis Date: 6/	7/2011 10	:40 PM
Client ID:		Run	ID: ICS210	D_110607B		SeqNo	: 2416	271	Prep Date: 6	/7/2011	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%F	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		207.7	5.0	200		0	104	90-110	200	0.1 3.72	20	
Surr: Sele	enate (surr)	46.98	1.0	50		0	94	85-115	48.	79 3.78	20	
						1.1	: mg/K	(a	٨٥٥	lucia Data: 61	7/0044 44	-00 DM
MS	Sample ID: 1106023-01AMS					Units	. my/r	\y	Alla	lysis Date: 6/	//2011 11	:09 PIVI
	Sample ID: 1106023-01AMS PU#59 SB-1 4'-5'	Run	ID: ICS210	D_110607B		SeqNo			Prep Date: 6	-	DF: 1	:09 Pivi
		Run Result	ID: ICS210	0_110607B SPK Val	SPK Ref Value	SeqNo				-		Qual
Client ID: LF				_		SeqNo %F	: 2416	273 Control	Prep Date: 6 RPD Ref	/7/2011	DF: 1 RPD	
Client ID: LF Analyte Chloride		Result	PQL	SPK Val	Value	SeqNo %F 54 §	: 2416 REC	273 Control Limit	Prep Date: 6 RPD Ref	/7/2011 %RPD	DF: 1 RPD	
Client ID: LF Analyte Chloride	PU#59 SB-1 4'-5'	Result 94.91 43.06	PQL 4.9	SPK Val 98.43	Value	SeqNo %F 54 9 0 8	2 416 REC	273 Control Limit 75-125 80-120	Prep Date: 6 RPD Ref Value	77/2011 %RPD	DF: 1 RPD Limit	Qual
Client ID: LF Analyte Chloride Surr: Sele	PU#59 SB-1 4'-5'	Result 94.91 43.06	PQL 4.9	SPK Val 98.43 <i>49.21</i>	Value	SeqNo %F 54 9 0 8	EREC 21.6 37.5	273 Control Limit 75-125 80-120	Prep Date: 6 RPD Ref Value	/7/2011 %RPD 0 0 lysis Date: 6/	DF: 1 RPD Limit	Qual
Client ID: LF Analyte Chloride Surr: Sele	PU#59 SB-1 4'-5'	Result 94.91 43.06	PQL 4.9 0.98	SPK Val 98.43 <i>49.21</i>	Value	SeqNo %F 54 9 0 8 Units SeqNo	EREC 21.6 37.5	273 Control Limit 75-125 80-120	Prep Date: 6 RPD Ref Value Ana	/7/2011 %RPD 0 0 lysis Date: 6/	DF: 1 RPD Limit	Qual
Client ID: LF Analyte Chloride Surr: Sele MS Client ID: LF	PU#59 SB-1 4'-5'	Result 94.91 43.06 Run	PQL 4.9 0.98 ID: ICS2100	SPK Val 98.43 49.21 0_110607B	Value 4.75 SPK Ref	SeqNo %f 54 9 0 8 Units SeqNo	: 2416 REC 91.6 37.5 ∷ mg/k :: 2416	273 Control Limit 75-125 <i>80-120</i> (g 298 Control	Prep Date: 6 RPD Ref Value Ana Prep Date: 6 RPD Ref	/7/2011 %RPD 0 0 lysis Date: 6/ /7/2011	DF: 1 RPD Limit 8/2011 05 DF: 1 RPD	Qual :12 AM
Client ID: LF Analyte Chloride Surr: Sele MS Client ID: LF Analyte Chloride	PU#59 SB-1 4'-5'	Result 94.91 43.06 Run Result	PQL 4.9 0.98 ID: ICS210 PQL	SPK Val 98.43 49.21 0_110607B SPK Val	Value 4.75 SPK Ref Value	SeqNo %F 54 9 0 8 Units SeqNo %F 22 9	: 2416 REC 91.6 37.5 : mg/k : 2416 REC	273 Control Limit 75-125 80-120 (g 298 Control Limit	Prep Date: 6 RPD Ref Value Ana Prep Date: 6 RPD Ref	/7/2011 %RPD 0 0 lysis Date: 6/ /7/2011 %RPD	DF: 1 RPD Limit 8/2011 05 DF: 1 RPD	Qual :12 AM
Client ID: LF Analyte Chloride Surr: Sele MS Client ID: LF Analyte Chloride	PU#59 SB-1 4'-5' enate (surr) Sample ID: 1106023-36AMS PU#59 SB-5 19'-20'	Result 94.91 43.06 Run Result 142.3 43.22	PQL 4.9 0.98 ID: ICS2100 PQL 5.0	SPK Val 98.43 49.21 0_110607B SPK Val 99.8	Value 4.75 SPK Ref Value	SeqNo %F 54 S 0 E Units SeqNo %F 22 S 0 E	REC 91.6 37.5 mg/k 2416 REC 93.2	273 Control Limit 75-125 80-120 (g 298 Control Limit 75-125 80-120	Prep Date: 6 RPD Ref Value Ana Prep Date: 6 RPD Ref Value	/7/2011 %RPD 0 0 lysis Date: 6/ /7/2011 %RPD 0	DF: 1 RPD Limit 8/2011 05 DF: 1 RPD Limit	Qual
Client ID: LF Analyte Chloride Surr: Sele MS Client ID: LF Analyte Chloride Surr: Sele MSD	PU#59 SB-1 4'-5' enate (surr) Sample ID: 1106023-36AMS PU#59 SB-5 19'-20'	Result 94.91 43.06 Run Result 142.3 43.22 D	PQL 4.9 0.98 ID: ICS2100 PQL 5.0	SPK Val 98.43 49.21 0_110607B SPK Val 99.8 49.9	Value 4.75 SPK Ref Value	SeqNo %F 54 S 0 E Units SeqNo %F 22 S 0 E	REC 91.6 97.5 mg/k 2416 REC 93.2 93.2 93.2 93.2	273 Control Limit 75-125 80-120 Cg 298 Control Limit 75-125 80-120	Prep Date: 6 RPD Ref Value Ana Prep Date: 6 RPD Ref Value	/7/2011 %RPD 0 0 lysis Date: 6/ /7/2011 %RPD 0 0 0	DF: 1 RPD Limit 8/2011 05 DF: 1 RPD Limit	Qual
Client ID: LF Analyte Chloride Surr: Sele MS Client ID: LF Analyte Chloride Surr: Sele MSD	PU#59 SB-1 4'-5' enate (surr) Sample ID: 1106023-36AMS PU#59 SB-5 19'-20' enate (surr) Sample ID: 1106023-01AMS	Result 94.91 43.06 Run Result 142.3 43.22 D	PQL 4.9 0.98 ID: ICS2100 PQL 5.0 1.0	SPK Val 98.43 49.21 0_110607B SPK Val 99.8 49.9	Value 4.75 SPK Ref Value	SeqNo %I 54 S 0 E Units SeqNo 22 S 0 E Units SeqNo	REC 91.6 97.5 mg/k 2416 REC 93.2 93.2 93.2 93.2	273 Control Limit 75-125 80-120 Cg 298 Control Limit 75-125 80-120	Prep Date: 6 RPD Ref Value Ana Prep Date: 6 RPD Ref Value	/7/2011 %RPD 0 0 lysis Date: 6/ /7/2011 %RPD 0 0 0	DF: 1 RPD Limit 8/2011 05 DF: 1 RPD Limit 7/2011 11	Qual
Client ID: LF Analyte Chloride Surr: Sele MS Client ID: LF Analyte Chloride Surr: Sele MSD Client ID: LF	PU#59 SB-1 4'-5' enate (surr) Sample ID: 1106023-36AMS PU#59 SB-5 19'-20' enate (surr) Sample ID: 1106023-01AMS	Result 94.91 43.06 Run Result 142.3 43.22 D Run	PQL 4.9 0.98 ID: ICS2100 PQL 5.0 1.0 ID: ICS2100	SPK Val 98.43 49.21 0_110607B SPK Val 99.8 49.9 0_110607B	Value 4.75 SPK Ref Value 49.2 SPK Ref	SeqNo %F 54 9 0 8 Units SeqNo 22 9 0 8 Units SeqNo %F	2416 REC 91.6 37.5 : mg/k : 2416 33.2 36.6 : mg/k : 2416	273 Control Limit 75-125 80-120 (g 298 Control Limit 75-125 80-120 (g 274 Control	Prep Date: 6 RPD Ref Value Ana Prep Date: 6 RPD Ref Value Ana Prep Date: 6 RPD Ref	/7/2011 %RPD 0 0 lysis Date: 6/ /7/2011 0 0 lysis Date: 6/ /7/2011 %RPD	DF: 1 RPD Limit 8/2011 05 DF: 1 RPD Limit 7/2011 11 DF: 1 RPD Limit	Qual

Method: E300

Client:Conestoga-Rovers & AssociatesWork Order:1106023Project:Lovington Paddock #59

QC BATCH REPORT

Eovington Fuddock #59

Batch ID: 52990	Instrument ID ICS2100

MSD Sample ID: 1106023-36	SAMSD				Units: mg/Kg An			alysis Date: 6/8/2011 05:27 AM			
Client ID: LPU#59 SB-5 19'-20'	Run ID	ICS210	0_110607B	Se	eqNo: 2410	6299	Prep Date: 6/7/2	2011	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	165.5	5.0	99.8	49.22	116	75-125	142.3	15.1	20		
Surr: Selenate (surr)	43.57	1.0	49.9	0	87.3	80-120	43.22	0.805	20		
The following samples were analyz	ed in this batch:	11	06023-01A 06023-04A 06023-11A	11060)23-02A)23-09A)23-12A	11	06023-03A 06023-10A 06023-17A				
		11	06023-18A 06023-25A	11060)23-19A)23-26A	11	06023-20A 06023-27A				
			06023-28A 06023-35A)23-33A)23-36A	11	06023-34A				

Method: E300

QC BATCH REPORT

Batch ID: 53269 Instrumer

Instrument ID ICS3K2

Method: E300

MBLK	Sample ID: WBLKS2-0616	11-53269				Units: mg/	Kg	Analysi	s Date: 6/	16/2011 0	5:01 PM
Client ID:		Run II	D: ICS3K2	_110616A	:	SeqNo: 242 7	7284	Prep Date: 6/16	/2011	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		U	5.0								
Surr: Sele	enate (surr)	49.87	1.0	50	(99.7	85-115	0			
LCS	Sample ID: WLCSS2-0616	11-53269				Units: mg/	Kg	Analysi	s Date: 6/	16/2011 0	5:23 PM
Client ID:		Run II	D: ICS3K2	_110616A	:	SeqNo: 242 7	7285	Prep Date: 6/16	/2011	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		208.8	5.0	200	(0 104	90-110	0			
Surr: Sele	enate (surr)	56.64	1.0	50	(0 113	85-115	0			
LCSD	Sample ID: WLCSDS2-061	611-53269				Units: mg/	Kg	Analysi	s Date: 6/	16/2011 0	5:45 PM
Client ID:		Run II): ICS3K2	_110616A	:	SeqNo: 242 7	7288	Prep Date: 6/16	/2011	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		208.8	5.0	200	(0 104	90-110	208.8	0.0287	20	
Surr: Sele	enate (surr)	57.01	1.0	50	(0 114	85-115	56.64	0.651	20	
MS	Sample ID: 1106026-39AM	IS				Units: mg/	Kg	Analysi	s Date: 6/	16/2011 1	1:32 PM
Client ID:		Run II): ICS3K2	_110616A	:	SeqNo: 242 7	7328	Prep Date: 6/16	/2011	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
		rtcouit	1 QL	0		/IIIIC					
Chloride		1888	5.0	99.21	1819		75-125	0			SEO
	enate (surr)				1819		75-125 <i>80-120</i>	0 0			SEO
Surr: Sele	enate (surr) Sample ID: 1106026-40AM	1888 55.38	5.0	99.21	1819	9 69.5	80-120	0	s Date: 6/	17/2011 1	
Surr: Sele	. ,	1888 55.38	5.0 0.99	99.21	1819	9 69.5 D <i>11</i> 2	80-120 Kg	0		17/2011 1: DF: 1	
MS Client ID:	. ,	1888 55.38	5.0 0.99	99.21 <i>4</i> 9.6	1819	9 69.5) <i>112</i> Units: mg/	80-120 Kg	0 Analysi			
Surr: Sele MS Client ID: Analyte	. ,	1888 <i>55.38</i> I S Run II	5.0 0.99 D: ICS3K2	99.21 <i>4</i> 9.6 2_ 110616A	1819 (SPK Ref	9 69.5 0 112 Units: mg/ SeqNo: 242 %REC	80-120 Kg 7332 Control	0 Analysi Prep Date: 6/16 RPD Ref	/2011	DF: 1 RPD	2:37 AM
Surr: Sele MS Client ID: Analyte Chloride	. ,	1888 55.38 IS Run II Result	5.0 0.99 D: ICS3K2 PQL	99.21 <i>49.6</i> 2_ 110616A SPK Val	1819 (SPK Ref Value	9 69.5 0 112 Units: mg/ SeqNo: 242 %REC 0 73.8	80-120 Kg 7332 Control Limit	0 Analysi Prep Date: 6/16 RPD Ref Value	/2011	DF: 1 RPD	2:37 AM Qual
Surr: Sele MS Client ID: Analyte Chloride Surr: Sele	Sample ID: 1106026-40AM	1888 55.38 IS Run II Result 1572 53.13	5.0 0.99 D: ICS3K2 PQL 4.9	99.21 49.6 2_110616A SPK Val 98.23	1819 (SPK Ref Value 1500	9 69.5 0 112 Units: mg/ SeqNo: 242 %REC 0 73.8	80-120 Kg 7332 Control Limit 75-125 80-120	0 Analysi Prep Date: 6/16 RPD Ref Value 0 0	/2011	DF: 1 RPD Limit	2:37 AM Qual SEO
Surr: Sele MS Client ID: Analyte Chloride Surr: Sele MSD	Sample ID: 1106026-40AM	1888 55.38 IS Run II Result 1572 53.13	5.0 0.99 D: ICS3K2 PQL 4.9 0.98	99.21 49.6 2_110616A SPK Val 98.23	1819 (SPK Ref Value 1500 (9 69.5 0 112 Units: mg/ SeqNo: 242 %REC 0 73.8 0 108	80-120 Kg 7332 Control Limit 75-125 80-120 Kg	0 Analysi Prep Date: 6/16 RPD Ref Value 0 0	/2011 %RPD s Date: 6/	DF: 1 RPD Limit	2:37 AM Qual SEO
Surr: Sele MS Client ID: Analyte Chloride Surr: Sele MSD Client ID:	Sample ID: 1106026-40AM	1888 55.38 IS Run II Result 1572 53.13	5.0 0.99 D: ICS3K2 PQL 4.9 0.98	99.21 49.6 2.110616A SPK Val 98.23 49.12	1819 (SPK Ref Value 1500 (9 69.5 0 112 Units: mg/ SeqNo: 242 %REC 0 73.8 0 108 Units: mg/	80-120 Kg 7332 Control Limit 75-125 80-120 Kg	0 Analysi Prep Date: 6/16 RPD Ref Value 0 0 0	/2011 %RPD s Date: 6/	DF: 1 RPD Limit	2:37 AM Qual SEO
Surr: Sele MS Client ID: Analyte Chloride Surr: Sele	Sample ID: 1106026-40AM	1888 55.38 IS Run II Result 1572 53.13 ISD Run II	5.0 0.99 D: ICS3K2 PQL 4.9 0.98 D: ICS3K2	99.21 49.6 2_110616A SPK Val 98.23 49.12 2_110616A	1819 (SPK Ref Value 1500 (SPK Ref	9 69.5 0 112 Units: mg/ SeqNo: 242 %REC 0 73.8 0 108 Units: mg/ SeqNo: 242 %REC	80-120 Kg 7332 Control Limit 75-125 80-120 Kg 7329 Control	0 Analysi Prep Date: 6/16 RPD Ref Value 0 0 Analysi Prep Date: 6/16 RPD Ref	/2011 %RPD s Date: 6/ /2011	DF: 1 RPD Limit 16/2011 1 DF: 1 RPD Limit	2:37 AM Qual SEO 1:54 PM
Surr: Sele MS Client ID: Analyte Chloride Surr: Sele MSD Client ID: Analyte Chloride	Sample ID: 1106026-40AM	1888 55.38 IS Run II Result 1572 53.13 ISD Run II Result	5.0 0.99 D: ICS3K2 PQL 4.9 0.98 D: ICS3K2 PQL	99.21 49.6 2-110616A SPK Val 98.23 49.12 2-110616A SPK Val	1819 C SPK Ref Value 1500 C SPK Ref Value	9 69.5 0 112 Units: mg/ SeqNo: 242 %REC 0 73.8 0 108 Units: mg/ SeqNo: 242 %REC	80-120 Kg 7332 Control Limit 75-125 80-120 Kg 7329 Control Limit	0 Analysi Prep Date: 6/16 RPD Ref Value 0 0 Analysi Prep Date: 6/16 RPD Ref Value	/2011 %RPD s Date: 6/ /2011 %RPD	DF: 1 RPD Limit 16/2011 1 DF: 1 RPD Limit 20	2:37 AM Qual SEO 1:54 PM Qual

Client: Conestoga-Rovers & Associates 1106023 Work Order: **Project:** Lovington Paddock #59

QC BATCH REPORT

Qual

SEO

Batch ID: 53269 Instrument ID ICS3K2 Method: E300 MSD Sample ID: 1106026-40AMSD Units: mg/Kg Analysis Date: 6/17/2011 01:42 AM Client ID: Prep Date: 6/16/2011 DF: 1 Run ID: ICS3K2_110616A SeqNo: 2427336 SPK Ref RPD Ref RPD Control Value Limit Value Limit Analyte Result PQL SPK Val %REC %RPD Chloride 1572 4.9 98.23 1500 73.9 75-125 1572 0.00562 20 Surr: Selenate (surr) 53.21 0.98 49.12 0 108 80-120 53.13 0.148 20 1106023-14A 1106023-15A The following samples were analyzed in this batch: 1106023-13A 1106023-16A

Client:Conestoga-Rovers & AssociatesWork Order:1106023Project:Lovington Paddock #59

QC BATCH REPORT

Batch ID: R1108	11 Instrument ID B	alance1		Metho	d: SW35	50						
DUP Sa	mple ID: 1106023-36ADUF)				Units: wt%	Ď	Analys	sis Date: 6/	2/2011 11	:30 AN	
Client ID: LPU#5	9 SB-5 19'-20'	Run ID	BALAN	CE1_11060	2E	SeqNo: 241	0894	Prep Date:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Percent Moisture	1	4.753	0.010	0		0 0	0-0	4.649	2.2	20		
The following sa	amples were analyzed in t	his batch:	11 11	06023-01A 06023-04A 06023-11A 06023-18A	1 [.] 1 [.]	06023-02A 06023-09A 06023-12A 06023-19A	11) 11(06023-03A 06023-10A 06023-17A 06023-20A				
			11 11	06023-18A 06023-25A 06023-28A 06023-35A	1 [.] 1 [.]	06023-19A 06023-26A 06023-33A 06023-36A	11(06023-20A 06023-27A 06023-34A				

Client: Work Order: Project:	Conestoga-Rovers & Associate 1106023 Lovington Paddock #59	28						QC I	BATC	H RE	PORT
Batch ID: R111505	Instrument ID Balance1		Metho	d: SW355	0						
DUP Samp	le ID: 1106473-07ADUP				U	Inits: wt%		Analysi	s Date: 6/	16/2011 1	0:30 AM
Client ID:	Run I	D: BALAN	CE1_11061	6B	Se	qNo: 2426	6049	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	18.7	0.010	0		0	0	0-0	19.22	2.73	20	
The following sam	ples were analyzed in this batch:		06023-13A 06023-16A	11	060	23-14A	11	06023-15A			

Date: 20-Jun-11

ALS Environmental

-

Client: Project: WorkOrder:	Conestoga-Rovers & Associates Lovington Paddock #59 1106023	QUALIFIERS, ACRONYMS, UNITS
Qualifier	Description	
*	Value exceeds Regulatory Limit	
a	Not accredited	
В	Analyte detected in the associated Method Blank above the Repo	orting Limit
E	Value above quantitation range	
Н	Analyzed outside of Holding Time	
J M	Analyte detected below quantitation limit Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL	
Acronym	<u>Description</u>	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitation Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Units Reported	-	
mg/Kg	Milligrams per Kilogram	
0.0		

wt%



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Chain of Custody Form

Page of

COC ID: 33508

ALS Project Manager:

1106023

CRA-MID: Conestoga-Rovers & Associates

Project: Lovington Paddock #59

9 1 1 2 1 2 1 2 1		

	Customer Informatio	on	Project Information																	
Purchase Order			Project N	lame	Lovingt	on Pacidoel	c#59		A	Anich	ອ ເວບບກ	VI.		-					1	
Work Order			Project Nur	nber	073817	•		and to be the second	В	Moist	ure									
Company Name	Conestoga-Rovers &	Associates	Bill To Com	pany	Conest	oga-Rovers	& Associat	es	С				····							
Send Report To	James Ornelas		Invoice	Attn	James	Ornelas			D											
Address	6320 Rothway Ste. 1	00	Add	63.20 Rolhway, Suite 100				E												
City/State/Zip	Houston, TX 77040	189 jú,	City/State	City/State/Zip Houston, TX 77040				G												
Phone	(713) 734-3090	······	Pł	none	(713) 7	34-3090			н											
Fax	(713) 264-6130			Fax	(713) 7	34-3391			1						* <u>**</u> *					
e-Mail Address			e-Mail Add	ress					J											
No.	Sample Description		Date	Ti	me	Matrix	Pres.	# Bottles	A	В	С	D	E	F	G	Н	1	J	Hold	
1 LPU#57	SB-1	4'-5'	5 26/1	10	510				X	X										
2 LPU#S		9'-10'	111	1	512	the second s			X	X										
3 LPU #59	SB-1	14'-15'	11 11		514				X	X										
4 LPU#59	56-1	19'-20'	11 11	1	+1/				X	X										
5 LPU #59	5B-)	24 -25	11 (1		318						Ho	D			Nama (programma and a second		and and the state of the state		X	
6 LPU HJ9	SB-	29'-30'	11 1/		520						176L	-D	-	THE REAL PROPERTY OF	117756 (77711775777777777777777777777777777	100000000000000000000000000000000000000			X	
7 LPU#59	SB-1	34'-35'	11 (1		522		-				Ho	4	6	No. of Concession, Name	and the second secon		No. of the local diversion of the local diver	-	X	
8 1P11 HESG	SB-1	391-40'	(/)	j:	524						110			TE and a second s	APRILITY TO A DESCRIPTION OF THE		Ribting	-	X	
9 LIUHSS	5B-2	4'-5'	11 11		534		-		\ge	X										
10 LPU#59	JB-2	9-10	((''	1	1536		-		X	X										
Sampler(s) Please P	rint & Sign		Shipme	Shipment Method Required Turnaround Time: (Check Box) Shipment Method Results							esults (Jue Da	te:							
Relinguished by:		Date:	Time:	ie: 4 / Received by:						Days	2 W .0 Day T	K Days		24 Hour	·					
Ljan	30	5/31/1	100	1600													,		angungan sa	
Relinquished by:		Date:	Time:	KI HE (01111 0400				GAGO	Co	oler ID	Coole	er Temp. -		Package			ox Belov	elow)		
Logged bý (Laboratory):	Date:	Time:	Check	hecked by (Laboratory):							*****	Ī		OF A SID OC RAW DELA					
				<u> </u>	0 No.1900 7 Other 0 400 0 5005								1 Ē			34 ₀ /CLP	,	I		
Preservative Key:	1-HCI 2-HNO ₃	3-H ₂ SO ₄ 4-Na	aOH 5-Na ₂ S ₂ C	J ₃ 6-	NaHSO₄	7-Othe	r 8-4°C	9-5035	1		1			Other	r/EDD					

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Page of

COC ID: 33507

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	Customer Informatio	n			Projec	t Informat	ion			Parameter/Method Request for Analysis									
Purchase Order			Projec	t Name	Loving	ton Pacidocl	c#59		A	Anior	is (300)) CI							
Work Order			Project N	lumber	07381	7			в	Mois	ture					·····		Annual Contraction of	
Company Name	Conestoga-Rovers &	Associates	Bill To Co	ompany	Cones	toga-Rovers	s & Associat	es	С										
Send Report To	James Ornelas		Invoi	ce Attn	James	Ornelas			D										
Address	3320 Rothway Ste. 1	00	Α	ddress	63.20	Rothway, Su	lite 100		E										
		·····							F				_						
City/State/Zip	Houston, TX 77040		City/Sta	ate/Zip	Housto	on, TX 7704	10		G										
Phone	(713) 734-3090			Phone	(713)	734-3090			Н										
Fax	(713) 264-61:38			Fax	(713)	734-3391			1										
e-Mail Address			e-Mail A	ddress					J										
No.	Sample Description		Date		'ime	Matrix	Pres.	# Bottles	A	В	С	D	E	F	G	Н	1	J	Hold
1 LPUH	59 56-2	1-1-15	5/26/11	j	538				\mathbb{X}	X									
2 LFU #	59 SB-2	19'-26	11 (1	1	546				Х	X							l		
3 LPU#	59 SB-2	24/25	11 11	1	542					Plu	tre	Hould)	THE STREET FOR STREET	and the second			-	\overline{X}
4 LIVH	59 5B-2	29-30	11 11	1	544						Hi	LD.	. and the second se	1000 F.F. 2010 1010 - FEEL	nd statement in south on statement		TATE OF CHILDREN &		×
5 LPU #	59 58-2	34-351	11 11	1	541						休	W		and the second	AUTORNAL AND AND AND AND	annai i banna sataga naga	and the second secon		- X
6 LPV #5	59 SB-2	39-40	11 11		546						h	LD	eine	TALIN CONTRACTOR	a na an		4m.mm.jatist.gapiinij.vep	-	$\overline{\times}$
7 LPU#G	9 SB-3	4-5'	11 11		000				Х	Ϋ́									
	M 5B-3	9-10	11 11		-502				\mathbb{X}		-								
9 LPUHC		14'-15'	11 11	10	604				\mathbf{N}	X									
10 CPU#5	1 B-3	19'-20'	10 11		606				\mathbb{X}	X									
Sampler(s) Please F	Print & Sign		Ship	ment Met		Req	uired Turnar	ound Time: (Check	Box)	[] 0!	iier	,		R	esults I	Due Da	te:	
	//	<u>i 1</u>					<u>লী জাব 10 M</u>	VK Days		(Days	Contrast of the local division of the local	MK Days		24 Hou	r				
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Relinquished by:		Date:	Time:	Recei	Negroy (Lai	paratory): 7	0))))	FADD	Co	oler ID	Coo	ler Temp.			e: (Cheo III S:d (k One B	ox Belov	,	P CheckLis:
Logged by (Laboratory):	Date:	Time:	Chec	ked by (Lab	oratory):		~								 QC/Raw	Dala	("70 J	P Level IV
] [Leve	I IV SWI	846/CLF			a teeristiiV
Preservative Key:	1-HCI 2-HNO3	3-H ₂ SO ₄ 4-N	laOH 5-Na₂S	S ₂ O ₃ 6	5-NaHSO₄	7-Othe	r 8-4°C	9-5035] Othe	r/EDD			differing and approximation	

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Houston, Texas 77099

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Fax. +1 281 530 5887

Chain of Custody Form

of

COC ID: 33506

Page _

ALS Environmental

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and all the state of the state						t Manager:					ALS Work Order #: 106023								
(	Customer Information	n			Project Ir	nformati	on	an a			Par	amete	er/Met	hod Re	equest				
Purchase Order			Project N	lame	Lovington	Pacidock	#59		A	Anior	ns (300)	ÇI							
Work Order			Project Nur	mber	073817				в	Mois	ເມເອ								
Company Name	Conestoga-Rovers & /	Associates	Bill To Com	pany	Conestog	a-Rovers	& Associa	tes	С										
Send Report To	James Ornelas		Invoice	Attn	James O	rnelas			D	<u> </u>									
Address	6320 Rothvay Ste. 10	00	Add	6320 Rothway, Suite 100 Address				E											
City/State/Zip	Hauston, TX 77040		City/State	e/Zip	Houston,	TX 7704	0	•	G										
Phone	(713) 734-3090		Pł	hone	(713) 734	-3090			н										
Fax	(713) 264-6138			Fax	(713) 734	1-3391			1										
e-Mail Address			e-Mail Add	iress					J										
No.	Sample Description		Dațe i	Tin	ne l	Matrix	Pres.	# Bottles	A	В	C	D	E.	F	G	н	1	J	Hold
1 LPU# 59	5B-3	24-25	5/2011	11	W.					HOL	De	Sector Charles and	and state and a designed of	Concession and the second				NUMBER OF	X
2 LPVHS9	SB3	291-30	)1 (1	ji	16					10)	5	1041211009120080701H1895	and the second division of the second divisio		ADD IN COLUMN STORE				X
3 LPU#50	1 SB-3	34-35	11 11	1	12		······			HUL	D-		No. of Concession, Name						X
4 LPUHS	9 5B-3	34'-40'	11 11		14					1 1 1	D	Summer and the second diversion of the second diversion of the second diversion of the second diversion of the			Contraction of the local data			-	X
5 LPV #5	_	4'-5'	11 11		50				X	X									
6 1 811-24-59	i 512-4	9-16'	11 17		52				X	X									
7 LPU #50	5B-4	14'-15'	Ni le		254				$\mathbf{\hat{\mathbf{X}}}$	$\mathbf{\tilde{X}}$	·								
8 LPV #50		19'-26'	NI (,		1.56				X	ÌX									
9 LPU # 5	, ,	24-25'	11 1,	1	se					GH6	LD-	THE STREET		Alas I South Commission of the	and the second	and the second se			-X
10 LPV #59	5B-4	29 - 30	N 11	ľ	ING					He		-	-cogy=stratess		and the second state of th	Contraction of the local division of the loc		~ Retrong to the last of the l	·X
Sampler(s) Please P	rint & Sign		Shipme	ent Metho	d	Requ	iired Turna	round Time: (	Check	Box)	II Ott	508	, ,		Re	sults D	ue Date	e:	
Δ	d	. 1					] डtd 10 \	A/K Days	] 5 W	( Days		VK Days		24 Hour					
Relinquished by:		Date:	Time: /6 60		ceived by: No					:	10 Day	ΓΑΤ.							
Relinquished by:		Date:	Time:	Receive	Received by (Laboratory):					oler ID	Cool	er Temp							
Logged by (Laboratory)	):	Date:	Time:	Checke	d by (Labora	itory):	YH				1				111 Std Q	iC/Rew			P ChackList P Level IV
Preservative Key:	1-HCI 2-HNO ₃	3-H₂SO₄ 4-N	aOH 5-Na ₂ S ₂ C	) D ₃ 6-1	NaHSO₄	7-Other	8-4°C	9-5035				<del></del>	~~~	] Level		46/CLP			

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Page _____ of _____

COC ID: 33505

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	Customer Informati	on		P	roject In	formati	on		Parameter/Method Request for Analysis										
Purchase Order			Project Na	ame	Lovington	Paddocl	<#59		A	Anion	s (300)	CI							
Work Order			Project Num	nber	073817				в	Moist	ure						× ۵۵۰ ور و.		I
Company Name	Conesloga-Rovers	& Associates	Bill To Comp	bany	Conestog	a-Rovers	& Associate	es	С							_			
Send Report To	James Ornelas		Invoice	Attn	James Or	nəlas			D										
Address	6320 Rothway Ste.	100	Addr	ress	6320 Rothway, Suite 100														
City/State/Zip	Houston, TX 77040	)	City/State/	/Zip	Houston,	TX 7704	10		G										
Phone	(713) 734-3090		Ph	one	(713) 734	-3090			Н										
Fax	(713) 264-6138			Fax	(713) 734	-3391	//////////////////////////////////////		1	#104,1									
e-Mail Address	in a far an	and an	e-Mail Addr	ess					J										
No.	Sample Description		Date /	Tim	e N	/latrix	Pres.	# Bottles	A	В	С	D	E	F	G	Н	1	J	Hold
1 L(1) #59	Î SE-Y	34'-35	5/26/11	170	2				X	X	- HK	sla.		00.011 and 10.01100 and	- Andrew Construction		and the second second		_X_
2 CPUHS	i SB-Y	39'-40'	5/26/11	170	4				×	X	H¢	U)	Contractor of the	and the second		- State of the second		and a second second second	-X
3 411#5	9 50-5	4-5	1111	172	2				X	$\mathbf{X}$		-							
4 484 45	7 SB-5	9-10	10 11	112	2				X	X									
5 LPV #5		14'-15'	11 17	112	4				X	$\mathbf{X}$	-								
6 LPU #5		14-26'	11 11		4				X	X									
7 LINHS		24-251	11 11	17:	<u> </u>					Ho	D	C	and the second s				Approximation of the local distances	_	X
8 LPV#5	9 JB-5	29'-2'	11 11		50					H	20	e	Row Row Row		COLUMN TALINA	States and a strong	Summer of the local diversion of the local di	Rate Contractor	X
9 LPUH	58-5	34'-35'	11 11	11	32					Ho	LD	**********		warman and a second second second		The and the state of the state	Construction of the local division of the lo	-	5
10 LN # :	54 5B-5	39-40	11 11	17	14						40	**				ning the second second	Atomore and a second		$\times$
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Logged by (Laboratory)	):	Date:	Time:	Checker	by (Laborat	tory):	$\frac{1}{1}$							Level	avel II Std QC L TRRP CheckList NGI III Std QC/RAW Data L''' TRPP Level IV avel IV SW846/CLP				
Preservative Key:	1-HCI 2-HNO ₃	3-H ₂ SO ₄ 4-Na	OH 5-Na ₂ S ₂ O	3 6-N	aHSO₄	7-Other	r <b>8-</b> 4°C	9-5035							/ SW84	b/CLP	Side 12 haddelike war av de televisioneraa	emaan-unite	

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#### Sample Receipt Checklist

Client Name: CRA-MID		Date/Time Received: 01-Jun-11 09:00					
Work Order: <u>1106023</u>		Received b	y: <u>I</u>	<u>RDH</u>			
Checklist completed by <u>Raymand N Gambaa</u> eSignature	01-Jun-11 Date	Reviewed by:	Patricia eSignature	. Jynek	02-Jun-11 Date		
Matrices:SoilCarrier name:FedEx							
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Preser	nt 🗌			
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗌	Not Preser	nt 🗌			
Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Preser	nt 🔽			
Chain of custody present?	Yes 🗹	No 🗌					
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌					
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌					
Samples in proper container/bottle?	Yes 🗹	No 🗌					
Sample containers intact?	Yes 🗹	No 🗌					
Sufficient sample volume for indicated test?	Yes 🔽	No 🗌					
All samples received within holding time?	Yes 🗹	No 🗌					
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌					
Temperature(s)/Thermometer(s):	<u>2.6c, 3.1c</u>		002				
Cooler(s)/Kit(s):	3414, 7074						
Water - VOA vials have zero headspace?	Yes	No	No VOA vials s	submitted	$\checkmark$		
Water - pH acceptable upon receipt?	Yes	No 🗌	N/A				
pH adjusted? pH adjusted by:	Yes 🗌	No 🗌	N/A				

_____

Login Notes:

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	
Comments:		
CorrectiveAction:		



.





2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

#### ANALYTICAL RESULTS

Prepared by:

Lancaster

Laboratories

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Prepared for:

Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

January 06, 2013

Project: LPU #59

Submittal Date: 12/20/2012 Group Number: 1358064 PO Number: 4052429 Release Number: LEA COUNTY, NM State of Sample Origin: NM

<u>Client Sample Description</u> SB-2b-50' Grab Soil SB-2b-60' Grab Soil SB-2b-70' Grab Soil SB-3b-50' Grab Soil SB-3b-60' Grab Soil SB-3b-70' Grab Soil Lancaster Labs (LLI) # 6903401 6903402 6903403 6903404 6903405 6903406

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Conestoga-Rovers & Associates

Attn: Chris Knight

Respectfully Submitted,

Wendy a. Kom

Wendy A. Kozma Principal Specialist Group Leader

(717) 556-7257


# **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SB-2b-50' Grab Soil LPU #59	LLI Sample # SW 6903401 LLI Group # 1358064 Account # 11713
Project Name: LPU #59	
Collected: 12/18/2012 10:09 by JL	Conestoga-Rovers & Associates 13091 Pond Springs Road
Submitted: 12/20/2012 10:55	Austin TX 78729
Reported: 01/06/2013 09:36	

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Wet Cl	nemistry EH	A 300.0		mg/kg	mg/kg	
07333	Chloride by IC (solid)		16887-00-6	606	207	20
Wet Cl	nemistry SN	20 2540	G	8	8	
00111	Moisture		n.a.	4.5	0.50	1
				e sample after oven drying reported above is on an	at	

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	e	Analyst	Dilution Factor
07333	Chloride by IC (solid)	EPA 300.0	1	12361361201B	12/29/2012 0	01:51	Christopher D Meeks	20
01352	Deionized Water Extraction	EPA 300.0	1	12361361201B	12/26/2012 0	07:05	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12356820006B	12/21/2012 2	22:39	Scott W Freisher	1



# **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SB-2b-60' Grab Soil LPU #59	LLI Sample # SW 6903402 LLI Group # 1358064 Account # 11713
Project Name: LPU #59	
Collected: 12/18/2012 10:15 by JL	Conestoga-Rovers & Associates 13091 Pond Springs Road
Submitted: 12/20/2012 10:55	Austin TX 78729
Reported: 01/06/2013 09:36	

CAT No.	Analysis Name			CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Wet Cl	nemistry	EPA :	300.0		mg/kg	mg/kg	
07333	Chloride by IC	(solid)		16887-00-6	618	209	20
Wet Cl	nemistry	SM20	2540	G	સ	8	
00111	Moisture			n.a.	4.9	0.50	1
		es Celsius			sample after oven dryi reported above is on an		

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	e	Analyst	Dilution Factor
07333	Chloride by IC (solid)	EPA 300.0	1	12361361201B	12/29/2012 (	02:07	Christopher D Meeks	20
01352	Deionized Water Extraction	EPA 300.0	1	12361361201B	12/26/2012 0	07:05	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12356820006B	12/21/2012 2	22:39	Scott W Freisher	1



# **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SB-2b-70' Grab Soil LPU #59	LLI Sample # SW 6903403 LLI Group # 1358064 Account # 11713
Project Name: LPU #59	
Collected: 12/18/2012 10:24 by JL	Conestoga-Rovers & Associates 13091 Pond Springs Road
Submitted: 12/20/2012 10:55 Reported: 01/06/2013 09:36	Austin TX 78729

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Wet Cl	nemistry	EPA 300.0	)	mg/kg	mg/kg	
07333	Chloride by IC (soli	d)	16887-00-6	176	104	10
Wet Cl	nemistry	SM20 254	) G	8	8	
00111	Moisture		n.a.	5.2	0.50	1
				e sample after oven dryin reported above is on an		

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	me	Analyst	Dilution Factor
07333	Chloride by IC (solid)	EPA 300.0	1	12361361201B	12/29/2012	02:22	Christopher D Meeks	10
01352	Deionized Water Extraction	EPA 300.0	1	12361361201B	12/26/2012	07:05	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12356820006B	12/21/2012	22:39	Scott W Freisher	1



# **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SB-3b-50' Grab Soil LPU #59	LLI Sample # SW 6903404 LLI Group # 1358064 Account # 11713
Project Name: LPU #59	
Collected: 12/18/2012 10:59 by JL	Conestoga-Rovers & Associates 13091 Pond Springs Road
Submitted: 12/20/2012 10:55	Austin TX 78729
Reported: 01/06/2013 09:36	

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Wet Cl	nemistry E	PA 300.0		mg/kg	mg/kg	
07333	Chloride by IC (solid		16887-00-6	2,210	1,060	100
Wet Cl	nemistry S	M20 2540	G	8	8	
00111	Moisture		n.a.	5.9	0.50	1
				e sample after oven drying reported above is on an	at	

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
07333	Chloride by IC (solid)	EPA 300.0	1	13003003201A	01/04/2013	15:43	Christopher D Meeks	100
01352	Deionized Water Extraction	EPA 300.0	1	13003003201A	01/03/2013	07:25	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12356820006B	12/21/2012	22:39	Scott W Freisher	1



# **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SB-3b-60' Grab Soil LPU #59	LLI Sample # SW 6903405 LLI Group # 1358064 Account # 11713
Project Name: LPU #59	
Collected: 12/18/2012 11:06 by JL	Conestoga-Rovers & Associates 13091 Pond Springs Road
Submitted: 12/20/2012 10:55	Austin TX 78729
Reported: 01/06/2013 09:36	

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor				
Wet Cl	hemistry	EPA 300.0		mg/kg	mg/kg					
07333	Chloride by IC (soli	d)	16887-00-6	1,750	527	50				
Wet C	hemistry	SM20 2540	G	8	8					
00111	Moisture		n.a.	5.5	0.50	1				
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.									

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	e	Analyst	Dilution Factor
07333	Chloride by IC (solid)	EPA 300.0	1	13003003201A	01/04/2013 1	19:13	Christopher D Meeks	50
01352	Deionized Water Extraction	EPA 300.0	1	13003003201A	01/03/2013 0	07:25	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12361820002A	12/27/2012 0	09:14	William C Schwebel	1



# **Analysis Report**

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Sample Description: SB-3b-70' Grab Soil LPU #59	LLI Sample # SW 6903406 LLI Group # 1358064 Account # 11713
Project Name: LPU #59	
Collected: 12/18/2012 11:14 by JL	Conestoga-Rovers & Associates 13091 Pond Springs Road
Submitted: 12/20/2012 10:55	Austin TX 78729
Reported: 01/06/2013 09:36	

CAT No.	Analysis Name			CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor			
Wet Cl	hemistry	EPA 3	300.0		mg/kg	mg/kg				
07333	Chloride by IC (	(solid)		16887-00-6	1,690	521	50			
Wet Cl	hemistry	SM20	2540	G	8	8				
00111	Moisture			n.a.	5.1	0.50	1			
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.									

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
07333	Chloride by IC (solid)	EPA 300.0	1	13003003201A	01/04/2013	19:29	Christopher D Meeks	50
01352	Deionized Water Extraction	EPA 300.0	1	13003003201A	01/03/2013	07:25	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12361820002A	12/27/2012	09:14	William C Schwebel	1



# **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

#### Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 01/06/13 at 09:36 AM

Group Number: 1358064

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

#### Laboratory Compliance Quality Control

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12361361201B Chloride by IC (solid)	Sample numb N.D.	er(s): 690 10.0	)3401-6903 mg/kg	403 108		90-110		
Batch number: 13003003201A Chloride by IC (solid)	Sample numb N.D.	er(s): 690 10.0	)3404-6903 mg/kg	406 108		90-110		
Batch number: 12356820006B Moisture	Sample numb	er(s): 690	3401-6903	404 100		99-101		
Batch number: 12361820002A Moisture	Sample numb	er(s): 690	3405-6903	406 100		99-101		

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS MSD <u>%REC %REC</u>	MS/MSD <u>Limits RPD</u>	 BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 12361361201B Chloride by IC (solid)	Sample number(s 101 (2)	): 6903401-690340 90-110	P903393 33.8	BKG: P903393 96.5	14 (1)	20
Batch number: 13003003201A Chloride by IC (solid)	Sample number(s -5166 (2)	): 6903404-69034 90-110	6903404 2,080	BKG: 6903404 1,300	46* (1)	20
Batch number: 12356820006B Moisture	Sample number(s	): 6903401-690340	6903401 4.5	4.6	0	13
Batch number: 12361820002A Moisture	Sample number(s	): 6903405-69034	P902022 20.1	18.3	9	13

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

		Ch	evr	on	G	<i>ie</i>	ner	ic	A	na	ly	/S	is	R	eq	U	es	st/C	Cha	air	n of Cu	stoc	dy
💸 eurofins	Lancaster Laboratories			a. # <u> </u>				Group	# F?		caste 50(	r Labo	orator Sai	ies us mple :		40	34	01-0				DF	
1) Facility #	<b>Client Informatio</b>	n				4	Matrix			5			Ār	nalys	ses F	Requ	lest	ed			scr #:/ノク	050	••
$\frac{2}{2} - \frac{2}{2} + \frac{59}{5} + \frac{59}{5} - $	heiner Ble-ODBle Dowski	Coll Date	10/5 - 10/5 - 10/5 - 1004 1004 1009 1009 1012 1015 1019 1024 1055 1059 1059 1103 1104 1104	×××××××××××××× Grab ©	Composite	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Potable     Ground       Water     NPDES	Oil Air	IIIII Containers	BTEX + MTBE 8021  8260  Naphth	8260 full scan	Oxygenates	TPHG	TPHD Silica Gel Cleanup	Lead Total Diss. Method		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(30h52 02145) mp. mp. mp. (2450 22ADE)			Results in Dry      J value reportin     Must meet lowe     limits possible f     compounds     8021 MTBE Co     Confirm MTBE     Confirm MTBE     Confirm all hits     Run ox     Run ox	Veight g needed st detection or 8260 hfirmation + Naphthale hit by 8260 y 8260 y's on highes y's on all hits	ne st hit
Turnaround Tim Standard 72 hour	e Requested (TAT) 5 day 48 hour	) (please c 4 day 24 hour	ircle)	$\square$		a	lr Z	~		Date O Date 12/	2-) ]   19/1		Time	30 00		Receiv Receiv					Date	Time Time	9
-	<b>Options (please cir</b> d e VI (Raw Data)	<b>cle if rec</b> Alaska/Ty			IPS_		/ Commeri Fe	edEx	<u>ک</u>	 : 	Oth	her_		°C		Receiv	5	2 ty Seals	s Inta	ct?	Date 12/2011-	₹ ZZUT N	

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Issued by Dept. 40 Management 7047.01

The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client. Page 9 of 10

eurofins Lancaster

## **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D. TNTC	Reporting Limit none detected Too Numerous To Count	BMQL MPN CP Units	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units
, IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is  $\geq$  the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

#### U.S. EPA CLP Data Qualifiers:

#### **Organic Qualifiers**

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- **D** Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- **X,Y,Z** Defined in case narrative

#### Inorganic Qualifiers

- **B** Value is <CRDL, but  $\ge$ IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## Analytical Report 538952

for GHD Services, INC- Midland

**Project Manager: William Foord** 

CEMCLPU-59

073819

26-OCT-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



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QC Summary	7
Explanation of Qualifiers (Flags)	9
Chain of Custody	10
Sample Receipt Conformance Report	11



26-OCT-16



Project Manager: **William Foord GHD Services, INC- Midland** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No(s): **538952** CEMCLPU-59 Project Address: Lovington NM

#### William Foord:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 538952. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 538952 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



## Sample Cross Reference 538952



## GHD Services, INC- Midland, Midland, TX

CEMCLPU-59

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1-W-161019	W	10-19-16 10:15		538952-001



## CASE NARRATIVE



Client Name: GHD Services, INC- Midland Project Name: CEMCLPU-59

Project ID:073819Work Order Number(s):538952

 Report Date:
 26-OCT-16

 Date Received:
 10/19/2016

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



## **Certificate of Analytical Results 538952**



## GHD Services, INC- Midland, Midland, TX

CEMCLPU-59

Sample Id:         MW-1-W-161019           Lab Sample Id:         538952-001		Matrix: Date Col	Groun lected: 10.19	d Water .16 10.15	D	Date Received:10.1	9.16 16.3	0
Analytical Method: Inorganic Anior Tech: MNR Analyst: MNR Seq Number: 3002599	ns by EPA 300/30	)0.1 Date Prej	o: 10.24	16 11.40		rep Method: E30 6 Moisture:	0P	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	117	2.50		mg/L	10.24.16 11.40		5
Analytical Method: TPH By SW80	15B Mod				Р	rep Method: TX1	1005P	
Tech: ARM					%	Moisture:		
Analyst: ARM		Date Prep	p: 10.25	.16 11.00				
Seq Number: 3002701								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	C6C10GRO	ND	1.50		mg/L	10.25.16 17.42	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	ND	1.50		mg/L	10.25.16 17.42	U	1
S		Car Namban	%	TT	T ::4	A l D-4-	The s	
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135 70-135	10.25.16 17.42 10.25.16 17.42		
o-Terphenyl		84-15-1	120	%	70-155	10.25.10 17.42		
Analytical Method: BTEX by EPA		84-15-1	120	20	Р	rep Method: SW:	5030B	
Analytical Method: BTEX by EPA Tech: PJB		84-15-1	120	20	Р		5030B	
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB		Date Prej		[%] .16 12.00	Р	rep Method: SW:	5030B	
Analytical Method: BTEX by EPA Tech: PJB					Р	rep Method: SW:	5030B	
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494		Date Prep			Р	rep Method: SW:	5030B Flag	Dil
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter	8021B	Date Prep	o: 10.20		P %	rep Method: SW: 5 Moisture:		<b>Dil</b>
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter Benzene	8021B Cas Number	Date Prej <b>Result</b>	o: 10.20. <b>RL</b>		P % Units	rep Method: SW: 5 Moisture: Analysis Date	Flag	
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter Benzene Foluene	8021B Cas Number 71-43-2	Date Prep Result	o: 10.20. <b>RL</b> 0.00200		P % Units mg/L	rep Method: SW: 6 Moisture: Analysis Date 10.20.16 13.20	<b>Flag</b> U	1
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter Benzene Foluene Ethylbenzene	8021B Cas Number 71-43-2 108-88-3	Date Prep <b>Result</b> ND ND	o: 10.20 <b>RL</b> 0.00200 0.00200		P % Units mg/L mg/L	rep Method: SW: 5 Moisture: 6 Moisture: 7 Malysis Date 7 10.20.16 13.20 10.20.16 13.20	Flag U U	1
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter Benzene Foluene Ethylbenzene m,p-Xylenes	8021B Cas Number 71-43-2 108-88-3 100-41-4	Date Prep Result ND ND ND	o: 10.20. <b>RL</b> 0.00200 0.00200 0.00200		P % Units mg/L mg/L mg/L	rep Method: SW3 5 Moisture: <b>Analysis Date</b> 10.20.16 13.20 10.20.16 13.20 10.20.16 13.20	Flag U U U	1 1 1
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	8021B Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep Result ND ND ND ND	r: 10.200 <b>RL</b> 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200		P % Units mg/L mg/L mg/L mg/L mg/L	Analysis Date           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20	Flag U U U U U U	1 1 1 1 1 1
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes p-Xylenes Total Xylenes	8021B Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep Result ND ND ND ND ND	RL       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200		P % Units mg/L mg/L mg/L mg/L mg/L	Analysis Date           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20	Flag U U U U U	1 1 1 1 1
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB	8021B Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep Result ND ND ND ND ND ND ND	r:       10.20.         RL       0.00200         0.00200       0.00200         0.00200       0.00200         0.00200       0.00200         0.00200       0.00200         0.00200       0.00200         0.00200       0.00200         0.00200       0.00200         0.00200       0.00200         0.00200       0.00200         %       %		P % Units mg/L mg/L mg/L mg/L mg/L	Analysis Date           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20           10.20.16         13.20	Flag U U U U U U	1 1 1 1 1 1
Analytical Method: BTEX by EPA Tech: PJB Analyst: PJB Seq Number: 3002494 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	8021B Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep Result ND ND ND ND ND ND ND ND	RL       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200       0.00200	.16 12.00	P % Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L	rep Method: SW: 5 Moisture: 10.20.16 13.20 10.20.16 13.20 10.20.16 13.20 10.20.16 13.20 10.20.16 13.20 10.20.16 13.20 10.20.16 13.20 10.20.16 13.20	<b>Flag</b> U U U U U U U	1 1 1 1 1 1



QC Summary 538952



#### **GHD Services, INC- Midland** CEMCLPU-59

Analytical Method:	Inorganic Anions b	y EPA 300	/300.1					Pr	ep Metho	od: E300	)P	
Seq Number:	3002599			Matrix:	Water				Date Pre	ep: 10.2	4.16	
MB Sample Id:	715299-1-BLK		LCS Sar	nple Id:	715299-1-	BKS		LCSI	O Sample	d: 7152	299-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	< 0.500	25.0	24.9	100	24.7	99	90-110	1	20	mg/L	10.24.16 10:51	

Analytical Method:	Inorganic Anions b	y EPA 300	/300.1					Pr	ep Metho	od: E30	0P	
Seq Number:	3002599			Matrix:	Water				Date Pre	ep: 10.2	4.16	
Parent Sample Id:	538937-001		MS Sar	nple Id:	538937-00	01 S		MS	D Sample	Id: 5389	937-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	181	125	311	104	309	102	90-110	1	20	mg/L	10.24.16 11:12	

Analytical Method:	TPH By S	SW8015B	Mod						Pı	ep Meth	od: TX1	005P	
Seq Number:	3002701				Matrix:	Water				Date Pr	ep: 10.2	5.16	
MB Sample Id:	715376-1-	BLK		LCS Sar	nple Id:	715376-1	-BKS		LCS	D Sample	e Id: 7153	376-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range H	ydrocarbons	<1.50	100	98.6	99	94.5	95	70-135	4	25	mg/L	10.25.16 15:38	
C10-C28 Diesel Range Hyd	drocarbons	<1.50	100	97.1	97	93.3	93	70-135	4	25	mg/L	10.25.16 15:38	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		119		1	22		124		70	-135	%	10.25.16 15:38	
o-Terphenyl		129		1	19		119		70	-135	%	10.25.16 15:38	

Analytical Method:	TPH By S	SW8015B	Mod						Pr	ep Meth	od: TX1	005P	
Seq Number:	3002701				Matrix:	Ground W	ater			Date Pr	ep: 10.2	5.16	
Parent Sample Id:	538951-00	)1		MS San	nple Id:	538951-0	01 S		MS	D Sample	e Id: 5389	951-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range H	ydrocarbons	<1.50	99.8	104	104	102	102	70-135	2	25	mg/L	10.25.16 16:52	
C10-C28 Diesel Range Hyd	drocarbons	<1.50	99.8	101	101	99.9	100	70-135	1	25	mg/L	10.25.16 16:52	
Surrogate					1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	26		129		70	-135	%	10.25.16 16:52	
o-Terphenyl				1	29		129		70	-135	%	10.25.16 16:52	



QC Summary 538952



#### **GHD Services, INC- Midland** CEMCLPU-59

Analytical Method:	BTEX by EPA 8021B

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3002494 715152-1-BLK	1B		Matrix: nple Id:	Water 715152-1	-BKS			rep Meth Date Pr D Sample	ep: 10.1	5030B 9.16 152-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0895	90	0.0888	89	70-125	1	25	mg/L	10.19.16 15:52	
Toluene	< 0.00200	0.100	0.0910	91	0.0908	91	70-125	0	25	mg/L	10.19.16 15:52	
Ethylbenzene	< 0.00200	0.100	0.0942	94	0.0948	95	71-129	1	25	mg/L	10.19.16 15:52	
m,p-Xylenes	< 0.00200	0.200	0.192	96	0.193	97	70-131	1	25	mg/L	10.19.16 15:52	
o-Xylene	< 0.00200	0.100	0.0948	95	0.0957	96	71-133	1	25	mg/L	10.19.16 15:52	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	98		Ģ	97		85		80	)-120	%	10.19.16 15:52	
4-Bromofluorobenzene	101		1	00		102		80	)-120	%	10.19.16 15:52	

Analytical Method:	BTEX by EPA 802	1B						Pı	ep Meth	od: SW3	5030B	
Seq Number:	3002494			Matrix:	Ground W	/ater			Date Pr	ep: 10.1	9.16	
Parent Sample Id:	538890-001		MS San	nple Id:	538890-0	01 S		MS	D Sample	e Id: 5388	390-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0934	93	0.0941	94	70-125	1	25	mg/L	10.19.16 16:24	
Toluene	< 0.00200	0.100	0.0945	95	0.0963	96	70-125	2	25	mg/L	10.19.16 16:24	
Ethylbenzene	< 0.00200	0.100	0.0985	99	0.101	101	71-129	3	25	mg/L	10.19.16 16:24	
m,p-Xylenes	< 0.00200	0.200	0.200	100	0.204	102	70-131	2	25	mg/L	10.19.16 16:24	
o-Xylene	< 0.00200	0.100	0.0978	98	0.100	100	71-133	2	25	mg/L	10.19.16 16:24	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	99		100		80	-120	%	10.19.16 16:24	
4-Bromofluorobenzene			1	00		103		80	-120	%	10.19.16 16:24	



**Flagging Criteria** 



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	

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n D D	

# CHAIN OF CUSTODY

Keinquished by:       Fiscal #         5       Fiscal #         5       5         Notice: Signature of this document and relinguishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of sarvice unless bits of the samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of sarvice unless bits of the samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of sarvice unless bits of the samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of sarvice unless bits of the samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of sarvice unless bits of the samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of sarvice unless bits of the samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates.	3	Relinquished by:	Relinquished by Sampler:	TAT Starts Day received by Lab, if received by 5:00 pm	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT X 5	Turnaround Time ( Business days)	10	Ű	œ	7	6	л J	4	ω	2	1 hrw -1-22-1610 (9		No. Field ID / Point of Collection		Samplers's Name	Project Contact: Scott Foord	william.foord@ghd.com 71	S Loop 250 W, Midland, TX 79703	Company Address:	GHD-Midland	Client / Reporting Information		Service Center - San Antonio, Texas (210-509-3334)	Dallas Texas (214-902-0300)	Stafford,Texas (281-240-4200)
Date lime: constitutes a valid purchase or	P	Date Time:	Date Time: Constant to by Print and Constant to Constant to Constant By:	lived by 5:00 pm		Contract TAT	]7 Day TAT	x 5 Day TAT												Sample Depth	1233				713-734-3090				_		-3334)		
der from client company to XE		Received By	ate Time: 10 3 Received By;		TRR	Leve	Leve	Leve	are also de cal alla de de										1015	Date Time	Collection			PO Number:		Lovington, NM	Project Location:	CEMCLPU-59/073819	Proje				
sy: XENCO Laboratories and it		ľ	AMA OV		TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Data Deliverable Information										0	Matrix bottles HCI NaO								U	Project Information		www.xenco.com		
s affiliates, subcontractors and	4	Relinquished By:	Relinquished By:			UST / RG -411	TRRP Level IV	Level IV (Full Data Pkg	formation											Aceta HNO3 H2SC NaOH	1							-					
and assigns XENCO's sta		d By:	d By:			E	N	uli Data Pkg /raw data)											XX	NaHS MEOI NONE BTI	E										Xenco Quote #	Norcros	Odessa
standard terms and conditions of		Date Time:	Date Time:						Notes:											TPI	H-DRO									Analytical Information	ote #	Norcross, Georgia (770-449-8800)	Odessa, Texas (432-563-1800)
of service unless phylicush	4	Received By:	Received By:	FED-EX / UPS: Tracking #					es:																					ation	Xenco Job # 52		
te in	Temp: JR ID:R-8																			Field Comments		A = Air	WW= Waste Water	W = Wipe	SL = Sludge OW =Ocean/Sea Water	P = Product SW = Surface water	GW =Ground water DW = Drinking Water	S = Soil/Sed/Solid		Matrix Codes	38952	Tampa, Florida (813-620-2000)	Lakeland, Florida (863-646-8526)

Page 10 of 11

Final 1.000



Client: GHD Services, INC- Midland

### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/19/2016 04:30:00 PM Temperature Measuring device used : R8 Work Order #: 538952 Comments Sample Receipt Checklist 4.7 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? N/A #3 *Samples received on ice? Yes #4 *Custody Seal present on shipping container/ cooler? N/A #5 *Custody Seals intact on shipping container/ cooler? N/A N/A #6 Custody Seals intact on sample bottles? #7 *Custody Seals Signed and dated? N/A #8 *Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes Yes #14 Sample matrix/ properties agree with Chain of Custody? #15 Samples in proper container/ bottle? Yes #16 Samples properly preserved? Yes #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? N/A #21 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A #22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for N/A samples for the analysis of HEM or HEM-SGT which are verified by the analysts. #23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

#### * Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Vramer Jessica Kramer Checklist reviewed by: May Moah Kelsey Brooks

Date: 10/20/2016

Date: 10/20/2016

# Appendix E Waste Manifest

24-HOUR SERVICE	ANCE SE 737 Eunice, New Mex PRC #175010	<b>RVICES, Inc.</b> kico 88231 (575) 394-2511 8	Nº 30168						
AUTH	ORIZATION F	OR WORK							
DATE 10-19-16		YOUR NO. 726)							
COMPANY Chevron LEASE LPU 11 59									
MAIL INVOICE TO:		WELL Rob Sure							
DESCRIPTION OF WORK									
take bin w/ C									
Equipment Used	@\$	Hrs. worked	Total						
Box Rent			Total						
Liner			Total						
Jet Out			Total						
Disposal			Total						
Disposal Facility 551	@\$		Total						
Box No. Delivered	@\$	Hrs. worked	Total						
Box No. Picked Up	@\$	Hrs. worked							
Driver		and the second second	Sub Total						
Approved by			Sales Tax						
Re-order from: Totally Sharp Ad	vertising - 432-586-540	1 • www.PromoSupermarket.com	TOTAL						

1.00

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		CHEV MCI	1								
		VACUUN	A FMT			<b>N</b>					
105	9-001 NON-HAZARDO	OUS WASTE	MANIFEST	[ 1. PA	GE_OF	2. Truck	NO.				
G	3. COMPANY NAME         4. ADDRESS           CHEVRON         56 Texas Camp Rd.           PHONE NO. 575-396-4414         CITY				5. <b>PICK-UP DATE:</b> ZIP / C-10-15						
E	7. NAME OR DESCRIPTION OF WASTE SHI	NM         88260           [8. CONTAINERS]         9. TOTAL         10. UNIT									
						9. TOTAL QUANTITY					
N	a. Soil buttings and deb.	ris Impactor	Crude	1	CM		Y				
E	b.						and the second second	and an			
1.2	c.		MARCHAR MORE TO FRANCISADO A DE LA COMPANYA DE LA C	et de la contraction	NEW REPORT OF A VERY NEW REPORT OF A VERY	nofismani, racana antonialization a manazin					
R	d.	AL 2010 CONTRACTOR DATA									
	12. NAME OF LEASE:										
A	Lovington Paddock Unit 50										
		C OF EMERGEN									
T	HES SPECIALIST       24-HOUR EMERGENCY NO.         575-396-4414       (DIAL 1 AFTER HOUR)										
0	15. Chevron Representative: Hereby declare that the contents of this consignment are fully and accurately described above.										
R	PRINTED TYPED NAME On behalf SIGNATURE on behalf DATE										
T	16. TRANSPORTER (1)	17. TRANSPORTER (2)									
R A	TRUCKING COMPANY NAME: TRUCKING COMPANY NAME:										
N S	IN CASE OF EMERGENCY CONTACT:										
Р	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:										
O R	18. TRANSPORTER (1): Acknowledgment of re-	18. TRANSP	18. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material								
T E	PRINTED/TYPED NAME	PED NAME									
R S	SIGNATURE Stran	DATE	SIGNATURE DATE								
F	DISPOSAL FACILITY:	ADDRESS:				PHONE:					
A S C P I	Sur-Dence	12-1 F	6" 3" E. iu, man 575 - 316-15-14								
	PERMIT NO. 20. COMMENTS										
T Y											
I N	authorezed and permitted to receive such wastes. AUTHORIZED SIGNATURE		CELL NO.		DATE		TIM				
F	NO MORIZED SIGIALORE		CLEENO.		DATE		TIM				
	ASE REMIT COMPLETED MANIFES RIMY ALVARADO - PHONE: (575) 396-441	ST VIA MAIL, E	MAIL OR FA	хто	THE BI	ELOW LIS	TED CO	ONTACT			