		HOB	BSOCE)					
District I 1625 N. French	Dr., Hobbs, M			St		New Mex			Form C-141
District II							l Resources		Revised August 8, 2011
District III	D 1 1 1	30407410			Conser	vation Div	vision	Submit 1 Copy	to appropriate District Office in cordance with 19.15.29 NMAC.
District IV 1220 S. St. Fran	s Road, Aziet	E. NIA 97505	ECEIVE	D 1220		St. Franc		act	cordance with 19.15.29 WWAC.
1220 S. St. Flan	cis Di., Santa	re, NW 87303				, NM 875	the second s		
			Rele	ease Notific	cation	and Co	orrective A	ction	
						OPERAT		🗌 Initia	l Report 🛛 Final Report
		evron Envir Street Room		Management C			Kegan Boyer No. (713) 372-7	705	
Facility Nat							e Reserve Pit		
Surface Ow	mer State	of New Me	vico	Mineral C					. 30-025-38140
Surface Ow	lier State		XICO				E I CE	AITNO	. 50-025-58140
Unit Letter	Section	Township	Range	LOC A Feet from the		South Line	Feet from the	East/West Line	County
J	36	17 S	34 E	1855		South	1978	East	Lea
		Latitu	de <u>32.78</u>	93° N		Longitude	103.51923°	W	
Type of Rele	ase C141 s	ubmittal reque	ested by L		UKE	OF RELI Volume of	Release Unknov	vn Volume R	ecovered Unknown
Source of Re	lease Reser	ve Pit					lour of Occurrenc		Hour of Discovery
Was Immedia	ate Notice G		Yes	No 🛛 Not Ro	equired	If YES, To	Whom?		
By Whom?					-1	Date and Hour			
Was a Water	course Reac					If YES, Volume Impacting the Watercourse.			
			Yes 🛛						
If a Watercou	arse was Imp	pacted, Descri	ibe Fully.*						
N/A									
		em and Remed			c 11 .	<u>.</u>			
Larry Johnso	n requested	that a C141 b	e preparec	I for this location	followin	g a Site Insp	ection.		
									i i i
Describe Are	a Affected a	and Cleanup A	Action Tak	en.*					
Per NMOCD	directives,	a reserve pit a	rea of app	roximately 155'					Leking approved work start -
				Closure Report (S documenting rem				ga Rovers & Associ	iates (CRA) on behalf of
		8		6					
									uant to NMOCD rules and
									ases which may endanger eve the operator of liability
should their o	perations ha	ave failed to a	dequately	investigate and r	emediate	contaminatio	on that pose a three	eat to ground water,	surface water, human health
		ddition, NMO		tance of a C-141	report do	bes not relieve	e the operator of i	responsibility for co	ompliance with any other
	1/	n					OIL CONS	SERVATION	DIVISION
Signature:	Keyn	hoze	-						
1.2.2.2.2.4	V. D.				A	Approved by	Environmental S	pecialist:	
Printed Name	e: Kegan Bo	yer							
Title: Project	t Manager				A	Approval Date	e:	Expiration I	Date:
E-mail Addre	ess: kegan.b	oyer@chevro	n.com			Conditions of	Approval:		Attached
Date: 10/	14/13		Phone:	(713) 372-7705					
Attach Addit	tional Shee	te If Necess	913/						

* Attach Additional Sheets If Necessary

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

	and a second			Sa	inta re	, INIVI 075	05					
			Rel	ease Notific	ation	and Co	orrective A	ction				
						OPERA	ГOR	1	🛛 Initia	al Report		Final Report
Name of Company Chevron Environmental Management Co.				Co.	Contact Matt Hudson							
Address		400 Smith S	treet Roc	m 19001A		Telephone 1	No. (713) 372	2-1046				1.1
Facility Nat	me N	New Mexico	O State #	40]	Facility Typ	e Reserve F	Pit	API # 3	0-025-381	40	
Surface Ow	mer State	of New Mex	ico	Mineral O	wner				Lease N	lo.		
				LOCA	TION	OF RE	LEASE					
Unit Letter J	Section 36	Township 17 S	Range 34 E	Feet from the 1885	North/	South Line South	Feet from the 1978	East/W Ea	est Line ast	County Lea	12	
	1	Lat	titude	32.789444	ALC: NO	.ongitude_	the for the second	44				
S. S. R. L.S.					URE	OF REL				110		
Type of Rele			al requeste	ed by L Johnson	_		Release Unknow			Recovered	Unkn	
Source of Re		Reserve Pit		in the	1		lour of Occurrence	ce	Date and	Hour of Di	scovery	
Was Immedia	ate Notice (Yes [No 🛛 Not Re	quired	If YES, To	Whom?					2
By Whom?	11					Date and H	lour					- 18th 11
Was a Water	course Rea	ched?	Yes 🛛	No		If YES, Vo	olume Impacting	the Water	course.		1	
		em and Reme d that a C141		n Taken.* d for this location	followi	ng a Site Insp	pection.					
Per NMOCI) directives		area of ap	cen.* proximately 155' pped and submitted						nediation pl	lan incl	uding
regulations al public health should their o or the environ	ll operators or the envi operations h nment. In a	are required t ronment. The nave failed to a	o report an acceptance adequately OCD accept	e is true and compl nd/or file certain re- ce of a C-141 repor- v investigate and re- otance of a C-141 re-	elease no rt by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	ctive action report" do reat to gro	ons for rele es not reli ound water	eases which eve the ope , surface w	a may e erator o ater, hu	ndanger f liability man health
	100						OIL CON	SERVA	ATION	DIVISIO	ON	
Signature:		14 102										
Printed Name	e: Matt	Hudson			1	Approved by	District Supervis	or:			-	
Title:	Proje	ect Manager			1	Approval Dat	e:	E	xpiration]	Date:	-	11 14
E-mail Addre	-mail Address: mhudson@chevron.com Co					Conditions of	Approval:			Attached		

Date: Phone: 713-372-1046
* Attach Additional Sheets If Necessary

HOBBS OCD



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FINAL REPORT

Site Closure Report

New Mexico "O" State NCT-1 #40 RP#2673 Unit J, Section 36, T17S, R34E Lea County, New Mexico

Prepared for: Chevron Environmental Management Company

Conestoga-Rovers & Associates 2135 South Loop, 250 West Midland, Texas 79703 September 2013 • #073824(3)



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- APPENDIX C SITE CHRONOLOGY
- APPENDIX D SITE PHOTOGRAPHS
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- APPENDIX F WASTE MANIFEST

1.0 INTRODUCTION

This Site Closure Report provides documentation associated with corrective actions at the New Mexico "O" State #40, Lea County, New Mexico. The closure activities were documented and performed by Conestoga-Rovers & Associates (CRA) under the direction of Chevron Environmental Management Company (CEMC). A remediation permit number, RP 2673 was assigned to this project by the New Mexico Oil Conservation Division (NMOCD) Hobbs, New Mexico office. This report is an attachment to the Final C-141 Form submittal for RP #2673.

The Chevron New Mexico "O" State #40 (hereafter referred to as the "Site"), is located in Section 36 (Unit J), Township 17 South, Range 34 East, Lea County, New Mexico (Figure 1).

The scope of work for the subject corrective actions and corresponding activities was developed between CEMC, NMOCD and CRA personnel. CRA was responsible for the project management, general oversight of the reclamation activities and documentation of the field work. The agreed upon scope of services included:

- Obtaining proper site specific training, permits and involving appropriate stakeholders needed to conclude scope of work.
- Remove impacted soils excavated from the Site and transport to a Chevron approved waste facility.
- Implementation of a soil boring program consisting of three (SB-1, SB-2 and SB-3) soil borings to a depth of 100 feet.
- Lay poly liner in an excavated pit area and backfill the excavation pit using clean topsoil transported from an off-site source.
- Provide final backfilling, grading, ripping and seed dispersal for the affected area of the Site.
- Prepare Site Closure documents for submittal with the Final C-141 Release Notification and Corrective Action Form to the NMOCD requesting site closure.

2.0 SITE HISTORY / ASSESSMENT

On April 7, 2010 Chevron submitted a C-144 Form proposing pit closure. The original C-144 closure plan for this reserve pit was onsite burial, however, that approach was rejected by the NMOCD. The original C-144 Form is attached as in Appendix A. After a site inspection by the NMOCD, the agency requested that a C-141 Release Notification and Corrective Action Form should be filed by Chevron and consequently, a Remediation Permit number (RP#2673) was assigned to this project. The original C-141 Form is attached in Appendix B.

On January 11, 2011, CRA, CEMC and AECOM met at the NMOCD District I Hobbs office to discuss the path forward at the Site. Topics of discussion included modifications (waste excavation and removal vs. onsite trench burial) to the 2010 Closure Workplan and objectives necessary to close the pit as directed by the NMOCD District I Hobbs office.

Subsequent to the January 11, 2011 meeting between CRA, CEMC, AECOM and the NMOCD, a Closure Request Workplan prepared by CRA (April 13, 2011) on behalf of Chevron was submitted to the NMOCD.

Subsequent to the Closure Request Workplan prepared by CRA (April 13, 2011), CRA, Chevron (David Pagano) and Mr. Geoffery Leking met at the NMOCD District I Hobbs office on June 27, 2012 to discuss the path forward at the Site. Topics of discussion include the over-excavation of pit materials to depths of 4-5 feet, offsite disposal of pit materials to an NMOCD-permitted facility, delineation/confirmation sampling of excavation floor, subsurface (as appropriate), site restoration tasks as proposed in the workplan, backfilling, lining, grading, seeding, and closure documentation (C-141 final and C-144 pit closure) being submitted upon NMOCD concurrence of vertical delineation of the Site.

On March 13, 2013, CRA and Entact of Dallas, Texas mobilized to the Site to perform soil assessment activities. Heavy equipment was utilized to obtain soil samples from 4 inches, 2 feet, and 6 feet below the existing liner. No hydrocarbons were detected above the regulatory levels; however, chloride concentrations exhibited elevated concentrations well above recommended remediation and delineation levels. The chloride concentrations for the 4 inch, 2 feet and 6 feet intervals were 10,500, 11,900 and 9,250 mg/kg respectively.

On March 19, 2013, CRA and Entact mobilized to the Site to begin excavation activities. A total of approximately 3,366 cubic yards (cy) of material was removed from the existing remedial excavation, with floor depths ranging from 4-10 feet bgs.

In May 2013, after discussions and approval from the NMOCD Hobbs District I office, three soil borings (SB-1, SB-2, and SB-3) were installed within the existing remedial excavation to a depth of 100 feet below ground surface bgs. Soil samples were collected at 5 to 10 foot intervals in an effort to horizontally and vertically evaluate the extent of chloride impacts. All three soil borings SB-1 (70'-69.8 mg/kg), SB-2 (70'-108 mg/kg), and SB-3 (70'-29.8 mg/kg) demonstrated decreasing chloride levels with depth to well below recommended remediation and delineation levels. A soil boring analytical summary is provided in Table I. A soil cross section depicting subsurface conditions is provided in Figure 2. Certified Laboratory Reports for the 2013 soil sampling events are provided in Appendix E.

On June 5, 2013, Tom Larson with CRA and Kegan Boyer with CEMC met with NMOCD staff to finalize the Site's soil assessment and restoration activities. Discussions from the meeting included review of previous NMOCD communications, May 2013 soil boring delineation data, and remedial activities performed at the site to date. CRA, CEMC and NMOCD concluded that delineation efforts of chloride impacts have been reached, and closure/remediation efforts were acceptable and to proceed with backfilling and lining activities. In addition, Final C-141 and C-144 reports were to be completed and submitted to NMOCD upon completion of field activities.

3.0 CORRECTIVE ACTIONS

The field implementation of the approved site closure activities began on March 7, 2013. Entact of Dallas, Texas provided labor, heavy equipment and pit lining material. RWI of Hobbs, New Mexico provided haul trucks required for the field operations. CRA was responsible for the overall coordination of field operations, project management tasks and the safety of all CRA employees working on Site. The proposed and approved field work activities were completed on July 8, 2013. A Site Chronology of the daily work activities is provided in Appendix C. Site photographs documenting work activities are presented in Appendix D. Certified Laboratory Reports for the 2013 soil sampling events are provided in Appendix E.

3.1 LINING AND BACKFILLING OF REMEDIAL EXCAVATIONS

Restoration activities at the Site began on July 1, 2013 with the staging of heavy equipment near the borrow pit and excavated pit areas. Backfill of the excavated pit areas began on July 1, 2013. Installation of excavated pit liner (20 mil) started and was completed on July 5, 2013 by Entact. RWI transported approximately 4,032 cubic yards (cy) of clean fill that was obtained from an off-site borrow pit owned by the Pearce Ranch Trust. Backfill activities were concluded on July 8, 2013, with the Site being graded to minimize erosion, ripped with heavy machinery and seeded with a New Mexico native seed mixture (BLM#4). On July 9, 2013, equipment was demobilized from the Site. Site restoration activities and locations are depicted on Figure 3.

3.2 WASTE MANAGEMENT

CRA was responsible for managing waste associated with the 2013 project activities (3,366 cy). Controlled Recovery, Inc. (CRI) landfill was utilized as a disposal facility for impacted soils. CRI is an NMOCD and Chevron approved facility. The material was loaded into trucks provided by RWI. Each truck leaving the Site was provided with a uniquely numbered non-hazardous waste manifest to accompany each load. The manifest was signed by the generator (CEMC's agent), the transporter and finally by the CRI landfill's representative. Waste manifests utilized between March 20, 2013 and March 27, 2013 were labeled incorrectly with Central Vacuum Unit #342 information. Correspondence between CRA and CRI landfill on March 27, 2013 identified the incorrectly labeled manifests and addressed the issue, ultimately being resolved with the assistance of CRI landfill agents. Table II indicates the waste manifests that were incorrectly labeled with the Central Vacuum Unit #342. Table II also provides disposal volumes (in cubic yards), as well as manifest and vehicle numbers for the waste material that was transported off of the Site. Waste manifest (electronic) copies are attached to this report in a CD as Appendix F.

4.0 SUMMARY

The agreed upon scope of work and closure plan activities for the reclamation of the Chevron New Mexico "O" State #40, Lea County, New Mexico, has been completed (RP #2673). The following is a summary of project milestones and work performed:

- On April 7, 2010 Chevron submitted a C-144 Form proposing pit closure. The original C-144 closure plan for this reserve pit was onsite burial; however, that approach was rejected by the New Mexico Oil Conservation Commission (NMOCD). After a site inspection by the NMOCD, the agency requested that a C-141 Release Notification and Corrective Action Form should be filed by Chevron and consequently, a Remediation Permit number (RP #2673) was assigned to this project.
- On January 11, 2011, CRA, CEMC and AECOM met at the NMOCD District I Hobbs office to discuss the path forward at the Site. Topics of discussions included modifications (waste excavation and removal vs. onsite trench burial) to the 2010 closure workplan and objectives necessary to close the pit as directed by the NMOCD District I Hobbs office.
- Subsequent to the January 11, 2011 meeting between CRA, CEMC, AECOM and the NMOCD - a Closure Request Workplan prepared by CRA (April 13, 2011) on behalf of Chevron was submitted to the NMOCD.
- Subsequent to the Closure Request Workplan prepared by CRA (April 13, 2011), CRA, Chevron (David Pagano) and Mr. Geoffery Leking met at the NMOCD District I Hobbs office on June 27, 2012 to discuss the path forward at the Site. Topics of discussion include the over-excavation of pit materials to depths of 4-5 feet, offsite disposal of pit materials to an NMOCD-permitted facility, delineation/confirmation sampling of excavation floor, subsurface (as appropriate), site restoration tasks as proposed in the workplan, backfilling, lining, grading, seeding and closure documentation (C-141 Final and C-144 Pit Closure) being submitted upon NMOCD concurrence of vertical delineation of the Site.
- On March 13, 2013, CRA and Entact of Dallas, Texas mobilized to the Site to perform soil assessment activities. Heavy equipment was utilized to obtain soil samples from 4 inches, 2 feet, and 6 feet below the existing liner.
- On March 19, 2013, CRA and Entact mobilized to the Site to begin excavation activities. A total of approximately 3,366 cubic yards (cy) of material was removed from the existing remedial excavation, with floor depths ranging from 4-10 feet bgs.
- On April 3, 2013, CRA and CEMC personnel met with Geoffrey Leking with the NMOCD to discuss the status of this pit closure project and to propose vertical delineation approaches in association with existing conditions at the Site.
- In May 2013, after discussions and approval from the NMOCD Hobbs District I office, three soil borings (SB-1, SB-2 and SB-3) were installed within the existing

remedial excavation to a depth of 100 feet below ground surface bgs. All three soil borings SB-1 (70'-69.8 mg/kg), SB-2 (70'-108 mg/kg) and SB-3 (70'-29.8 mg/kg) demonstrated decreasing chloride levels with depth to well below recommended remediation and delineation levels.

- On June 5, 2013, Tom Larson with CRA and Kegan Boyer with CEMC met with NMOCD staff to review delineation results and to finalize the Site's soil assessment and restoration activities.
- On July 1, 2013, backfill activities began with RWI hauling clean backfill material to the reserve pit from an off-Site borrow pit provided by the Pearce Ranch Trust.
- On July 5, 2013, installation of the 20-mil poly liner was installed and backfilling activities commenced atop the liner.
- On July 8, 2013, backfill activities were concluded by returning the construction affected areas to existing grade. The Site was then ripped and seeded using an approved native grass seed mixture (BLM#4).
- On July 9, 2013, all equipment and personnel demobilized from the Site.

5.0 SITE CLOSURE REQUEST

This Site Closure Report provides documentation of the New Mexico "O" State #40 soil assessment activities involving the impacted soil areas and remedial correctional actions performed in accordance to the RP #2673. This report is an attachment to the Final C-141 Form submittal for RP #2673. Based on NMOCD communication and corrective actions performed to date, CRA, on behalf of CEMC, respectfully requests the NMOCD to rule that no further action for this site is warranted. This Site Closure Report concludes the scope of work for this project. Please feel free to contact the CRA Midland office if there are any questions or additional information is required.

All of Which is Respectfully Submitted,

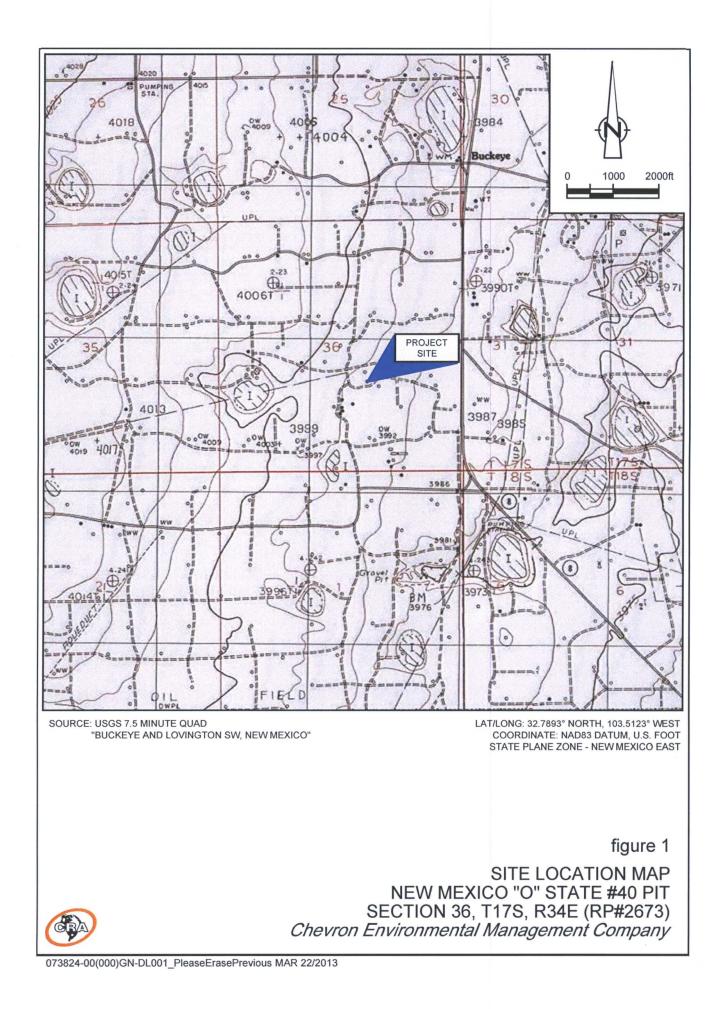
CONESTOGA-ROVERS & ASSOCIATES

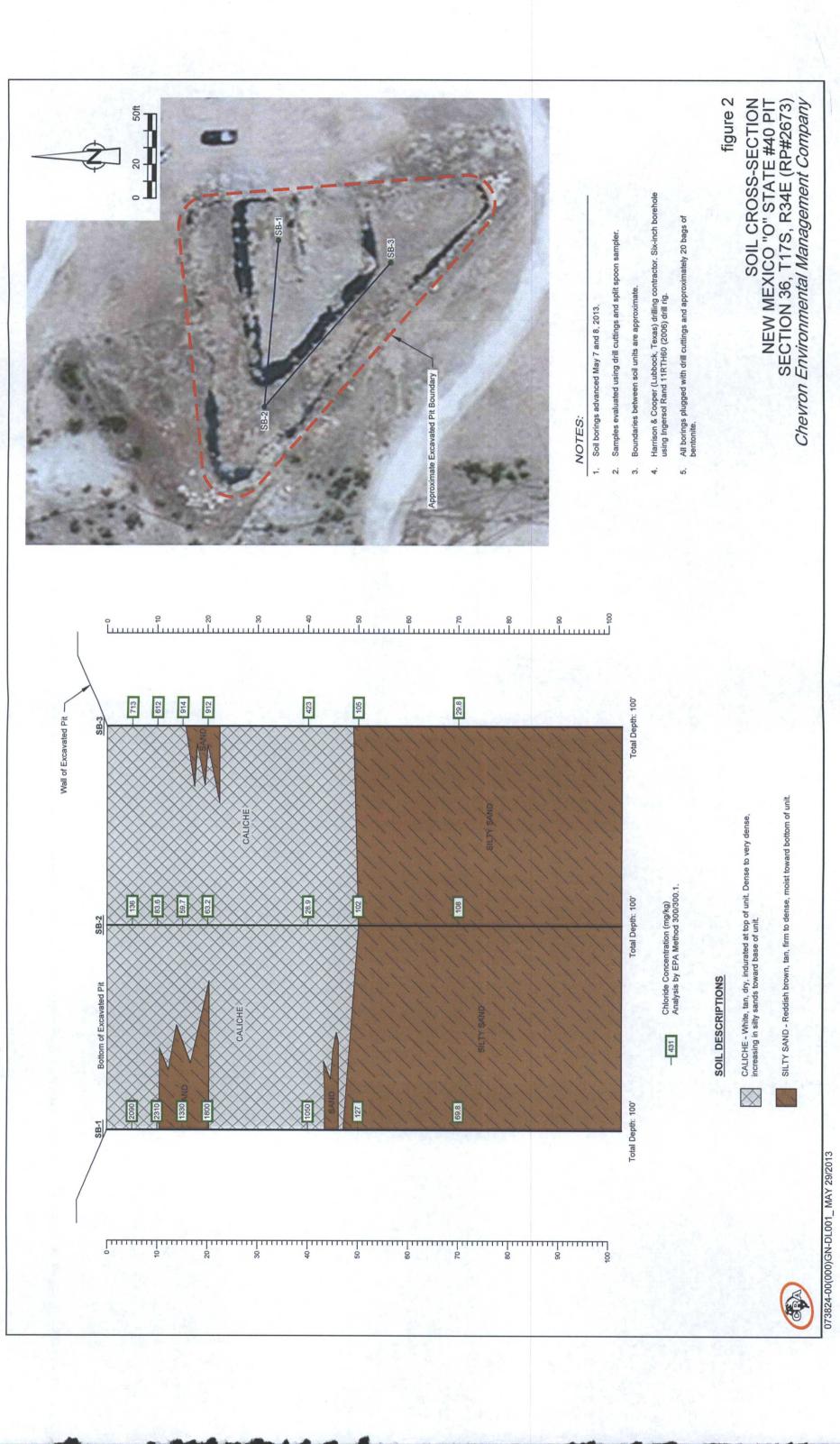
Thomas Clayon

Thomas C. Larson Midland Operations Manager

Jake Fing

Jake Ferenz Project Manager









Page 1 of 1

	SOIL BORING AI NEW MEXI	FABLE I NALYTICAL SUMMARY CO "O" STATE #40 FY, NEW MEXICO	
Sample ID	Sample Date	Depth (feet bgs)	Chloride
			(mg/kg)
NMOCD Recommend Levels (Total Ranking	ed Remediation Action Score = 10)		500
SB-1			
SB-1-5'	5/7/2013	5'	2,090
SB-1-10'	5/7/2013	10'	2,310
SB-1-15'	5/7/2013	15'	1,330
SB-1-20'	5/7/2013	20'	1,800
SB-1-40'	5/7/2013	40'	1,050
SB-1-50'	5/7/2013	50'	127
SB-1-70'	5/7/2013	70'	69.8
SB-1-90'	5/7/2013	90'	NA
SB-2			College and the second state
SB-2-5'	5/8/2013	5'	136
SB-2-10'	5/8/2013	10'	83.6
SB-2-15'	5/8/2013	15'	59.7
SB-2-20'	5/8/2013	20'	63.2
SB-2-40'	5/8/2013	40'	28.9
SB-2-50'	5/8/2013	50'	102
SB-2-70'	5/8/2013	70'	108
SB-2-90'	5/8/2013	90'	NA
SB-3			
SB-3-5'	5/8/2013	5'	713
SB-3-10'	5/8/2013	10'	612
SB-3-15'	5/8/2013	15'	914
SB-3-20'	5/8/2013	20'	912
SB-3-40'	5/8/2013	40'	423
SB-3-50'	5/8/2013	50'	105
SB-1-70'	5/8/2013	.70'	29.8
SB-3-90'	5/8/2013	90'	NA

Notes:

1. Chlorides analyzed by E300.0

2. NA - indicates sample was not analyzed

3. Highlighted cells indicated concentrations above regulatory guidelines

4. Chloride - RRALs based on NMOCD September 30, 2011 (DRAFT) guidance

Release Reporting and Corrective Actions Under Rule 29 & 30

Page 1 of 5

	NEW M	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/20/2013	13	487276	18
3/20/2013	13	487224	18
3/20/2013	13	487175	18
3/20/2013	151	487273	18
3/20/2013	151	487215	18
3/20/2013	151	487168	18
3/20/2013	5	487174	18
3/20/2013	5	487220	18
3/20/2013	5	487274	18
3/20/2013	720	487212	18
3/20/2013	720	487169	18
3/20/2013	720	487275	18
3/20/2013	7	487171	18
3/20/2013	7	487272	18
3/20/2013	7	487217	18
3/20/2013	7	487271	18
3/20/2013	7	487216	18
3/20/2013	7	487173	18
3/20/2013	10	487230	18
3/20/2013	10	487280	18
3/20/2013	10	487637	18
3/21/2013	13	· 487520	18
3/21/2013	13	487562	18
3/21/2013	13	487634	18
3/21/2013	151	487556	18
3/21/2013	151	487509	18
3/21/2013	151	487622	18
3/21/2013	5	487517	18
3/21/2013	5	487626	18
3/21/2013	5	487559	18
3/21/2013	720	487623	18
3/21/2013	720	487511	18
3/21/2013	720	487555	18
3/21/2013	7	487632	18
3/21/2013	7	487508	18
3/21/2013	7	487560	18
3/21/2013	7	487624	18
3/21/2013	7	487512	18
3/21/2013	7	487557	18
3/21/2013	10	487564	18
3/21/2013	10	*****	18

Page 2 of 5

	NEW M	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/21/2013	10	487514	18
3/22/2013	13	487877	18
3/22/2013	13	487829	18
3/22/2013	13	487784	18
3/22/2013	151	487782	18
3/22/2013	151	487828	18
3/22/2013	151	487876	18
3/22/2013	5	487884	18
3/22/2013	5	487832	18
3/22/2013	5	487791	18
3/22/2013	1	487888	18
3/22/2013	720	487882	18
3/22/2013	720	487788	18
3/22/2013	720	487830	18
3/22/2013	7	487889	18
3/22/2013	7	487799	18
3/22/2013	7	*****	18
3/22/2013	7	487839	18
3/22/2013	7	487792	18
3/22/2013	7	487831	18
3/22/2013	12	487797	18
3/22/2013	12	487843	18
3/22/2013	12	487896	18
3/22/2013	1	487798	18
3/22/2013	1	487834	18
3/23/2013	13	488162	18
3/23/2013	13	488083	18
3/23/2013	13	488110	18
3/23/2013	151	488088	18
3/23/2013	151	488118	18
3/23/2013	151	488167	18
3/23/2013	5	488164	18
3/23/2013	5	488113	18
3/23/2013	5	488087	18
3/23/2013	720	488109	18
3/23/2013	720	488080	18
3/23/2013	720	488157	18
	720	488086	18
3/23/2013	7 7	488086	18
3/23/2013	7		
3/23/2013 3/23/2013	7 7	488114 488159	18

Page 3 of 5

	NEW M	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/23/2013	7	488112	18
3/23/2013	7	488082	18
3/23/2013	12	488081	18
3/23/2013	12	488106	18
3/23/2013	12	488163	18
3/23/2013	1	488153	18
3/23/2013	1	488105	18
3/23/2013	1	488076	18
3/25/2013	13	488525	18
3/25/2013	13	488616	18
3/25/2013	13	488568	18
3/25/2013	151	488614	18
3/25/2013	151	488522	18
3/25/2013	151	488562	18
3/25/2013	5	488524	18
3/25/2013	5	488617	18
3/25/2013	5	488567	18
3/25/2013	720	488622	18
3/25/2013	720	488573	18
3/25/2013	720	488526	18
3/25/2013	7	488618	18
3/25/2013	7	488565	18
3/25/2013	7	488521	18
3/25/2013	7	488523	18
3/25/2013	7	488566	18
3/25/2013	7	488615	18
3/25/2013	12	488625	18
3/25/2013	12	488574	18
3/25/2013	12	488528	18
3/25/2013	1	488613	18
3/25/2013	1	488563	18
3/25/2013	1	488520	18
3/26/2013	13	488904	18
3/26/2013	13	488858	18
3/26/2013	13	488811	18
3/26/2013	151	488894	18
3/26/2013	151	488849	18
3/26/2013	151	488802	18
3/26/2013	5	488805	18
3/26/2013	5	488852	18
3/26/2013	5	488899	18

Page 4 of 5

	NEW M	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/26/2013	720	488910	18
3/26/2013	720	488857	18
3/26/2013	720	488808	18
3/26/2013	7	488804	18
3/26/2013	7	488851	18
3/26/2013	7	488901	18
3/26/2013	7	488861	18
3/26/2013	7	488812	18
3/26/2013	7	488911	18
3/26/2013	12	488903	18
3/26/2013	12	488806	18
3/26/2013	12	488853	18
3/26/2013	1	488847	18
3/26/2013	1	488803	18
3/26/2013	1	488895	18
3/27/2013	1	489174	18
3/27/2013	1	489230	18
3/27/2013	1	489111	18
3/27/2013	5	489173	18
3/27/2013	5	489232	18
3/27/2013	5	489112	18
3/27/2013	7	489182	18
3/27/2013	7	489235	18
3/27/2013	7	489121	18
3/27/2013	12	489249	18
3/27/2013	12	489109	18
3/27/2013	12	489171	18
3/27/2013 3/27/2013	13	489116 489176	18
3/27/2013	13	489176	18
3/27/2013	15	489234	18
3/27/2013	151	489224	18
3/27/2013	151	489110	18
3/27/2013	720	489239	18
3/27/2013	720	489181	18
3/27/2013	720	489119	18
3/28/2013	5	489439	18
3/28/2013	7	489443	18
3/28/2013	7	489436	18
3/28/2013	12	489449	18
3/28/2013	13	489441	18

Page 5 of 5

	NEW M	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubi yards
3/28/2013	151	489435	18
3/28/2013	720	489434	18
4/2/2013	5	490687	18
4/2/2013	5	490757	18
4/2/2013	5	490833	18
4/2/2013	7	490690	18
4/2/2013	7	490765	18
4/2/2013	7	490835	18
4/2/2013	7	490832	18
4/2/2013	7	490679	18
4/2/2013	7	490746	18
4/2/2013	10	490760	18
4/2/2013	10	490688	18
4/2/2013	10	490829	18
4/2/2013	13	490834	18
4/2/2013	13	490763	18
4/2/2013	13	490689	18
4/2/2013	151	490739	18
4/2/2013	151	490676	18
4/2/2013	151	490831	18
4/2/2013	720	490830	18
4/2/2013	720	490755	18
4/2/2013	720	490684	18
S. Salar			Total: 3,366

Note:

1) Highlighted cells indicate waste manifest was originally labeled incorrectly with Central Vacuum Unit #342

2) ****** Indicates that haul load was received by R360 Environmental Solutions, but driver did not return

to site with ticket number



Rodney Bailey Environmental Advisor Chevron North America Exploration and Production Mid Continent Business Unit/HES 15 Smith Rd Midland, Texas 79705 Office 432-687-7123 Cell 432-894-3519 Fax 866-569-5650

April, 7 2010

Mr. Larry Johnson NMOCD District Office 1625 N. French Drive Hobbs, New Mexico 88240

Re: Drilling Pits; Central Vacuum Unit 342 and New Mexico O-40, Closure Plans; CVU 342, S 36, T 17S, R 34 E, API # 30-025-38002 NM O-40, S 36, T 17S, R 34 E, API # 30-025-38140

Chevron would like to submit this work plan for the closure of drilling pits CVU 342 and NM O-40. Also attached are Pit closure form C-144 for each location.

- Chevron will excavate each pit and liner and store the material adjacent to the excavation.
- The soil beneath the temporary pit will be sampled to determine whether a release has
 occurred. If a release has occurred Chevron will excavate or blend the soil till closure limits
 stated in 19.15.17.13.(B) (1) (b) (i) are reached.
- · A 20 mil poly liner with welded seams will be placed in the excavation
- The previously excavated material will be returned to the pit, on top of the pit liner. The pit liner will be folded over the backfilled material. (original pit contents)
- A second pit liner will be placed on top of the back filled pit. Clean soil will be used as backfill
 on top of the liner. The center will be slightly mounded to promote rain water runoff and keep
 it from pooling in the center.
- Area will be contoured to match surrounding area
- Area will be seeded with NMOCD approved seed.

Chevron will began closure of these drilling pits as soon as we receive NMOCD approval.

If you have any questions please call me at 432-687-7123.

Respectfully,

Kodning

Rodney Bailey Environmental Advisor Chevron North America

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 July 21, 2008

July 21, 200 For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator: Chevizon OGRID#:
Operator: <u>Chevizon</u> Address: <u>15 Smith Rd Midland tx 79705</u>
Facility or well name: New Marico 0-40
API Number: 30-025- 38/40 OCD Permit Number:
API Number: 30-025-38140 OCD Permit Number: U/L or Qtr/Qtr Section 36 Township 75 Range 346 County: 2014
Center of Proposed Design: Latitude Longitude NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
Tined Unlined Liner type: Thickness 20 mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded G Factory Other Volume:bbl Dimensions: Lx Wx D
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other
Liner type: Thickness mil HDPE PVC Other
5.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospiläi, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

10.

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accumaterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appr office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes INO
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Ves No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes ANO
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain.	Ves No

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:</u> Instructions: Each of the following items must be attached to the application. Please indicate, by a check attached.	
 Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subse Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements and 19.15.17.13 NMAC) of Subsection B of 19.15.17.9 NMAC NMAC
Previously Approved Design (attach copy of design) API Number: or	Permit Number:
12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check attached.	
 Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragr Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate re Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirement and 19.15.17.13 NMAC 	quirements of 19.15.17.10 NMAC
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:	(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check attached.	NMAC D NMAC C 17.11 NMAC 15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-g Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) Im-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Feedore Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of a closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	grade Tank Closed-loop System

^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future se Yes (If yes, please provide the information below) No	rvice and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AC
17. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable son provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dis considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	trict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Pes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes TNo
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes 2 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual Inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes ANO
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes I No
Within a 100-year floodplain. - FEMA map	Yes A No
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.10 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards can	9.15.17.11 NMAC

Disposal radius radius radius for inquisis, annug radis and ann editings of in case of site
 Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

· . 9.		
Operator Application Certification:		
I hereby certify that the information submitted with this application is true, a		
Name (Print): hodwey Briley	Title: Crub	Advisor
ignature: Nodawy Bearley	Date:	4-7-10
mail address: bailerg@ Chevizons.com	Telephone:	132-687-7123
e. CCD Approval: Permit Application (including closure plan) Closure	ure Plan (only) 🗌 OCD C	onditions (see attachment)
OCD Representative Signature:		Approval Date:
Sitle:	OCD Permit Numbe	r:
a. <u>Closure Report (required within 60 days of closure completion)</u> : Subsec <u>Subsections: Operators are required to obtain an approved closure plan proposed closure plan proposed</u> <u>Subsection of the form until an approved closure plan has been obtained and the subsection</u> <u>Subsection of the form until an approved closure plan has been obtained and the subsection</u> <u>Subsection of the form until an approved closure plan has been obtained and the subsection</u> <u>Subsection of the form until an approved closure plan has been obtained and the subsection</u> <u>Subsection</u> <u>Subsection</u> <u>Subs</u>	rior to implementing any clo s of the completion of the cl	osure activities and submitting the closure report osure activities. Please do not complete this
	Closure Comple	ction Date:
2. <u>Closure Method:</u> Waste Excavation and Removal On-Site Closure Method Al If different from approved plan, please explain.	Iternative Closure Method [Waste Removal (Closed-loop systems only)
t. Closure Report Regarding Waste Removal Closure For Closed-loop Sys Instructions: Please indentify the facility or facilities for where the liquids wo facilities were utilized.		
Disposal Facility Name:	Disposal Facility Pen	nit Number:
Disposal Facility Name:	Disposal Facility Pen	nit Number:
Vere the closed-loop system operations and associated activities performed Ves (If yes, please demonstrate compliance to the items below)	on or in areas that <i>will not</i> be lo	used for future service and operations?
Required for impacted areas which will not be used for future service and op Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	perations:	
Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique		o the closure report. Please indicate, by a check
Site Reclamation (Photo Documentation)		
	ongitude	NAD: 1927 1983
S.	sure report is true accurate a	
hereby certify that the information and attachments submitted with this close		
hereby certify that the information and attachments submitted with this closelief. I also certify that the closure complies with all applicable closure required.	uirements and conditions spe	
Decrator Closure Certification: Thereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requirements (Print):	uirements and conditions spe	
hereby certify that the information and attachments submitted with this close belief. I also certify that the closure complies with all applicable closure required Name (Print):	uirements and conditions spe	Advisoz 4-7-10

Site Chronology – New Mexico "O" State NCT-1 #40 Reserve Pit Restoration Project

Unit J, Section 36, T17S, R34E (RP#2673)

March 7, 2013 (Thursday)	Performed GPR Survey of the peremeter of the reserve pit. Identified one underground utility (metal pipe)	
March 12, 2013 (Tuesday)	Completed One Call and identified a pipeline adjacent to the southwest side of the pit berm along with four above ground poly pipelines along the northwest corner of the pit stockpile area. Pipelines were marked by Chevron Vacuum FMT. Hydro-vac potential underground utilities.	
March 13, 2013 (Wednesday)	Received Vacuum FMT approval for Dig Plan to include soil sampling and pit excavation. Completed soil sample collection within pit area.	
March 18, 2013 (Monday)	CRA and Entact MOB to site. Equipment was brought on-site; Entact installed signage and flagged off hazard areas.	
March 19, 2013 (Tuesday)	Entact began back dragging pit material to one side of the reserve pit. Material was excavated from immediately below the liner and stockpiled within the pit.	
March 20, 2013 (Wednesday)	Entact began loading pit material within 20 cy belly dump trucks. 7 dump trucks transported approximately 378 cy of material (within 3 trips) for disposal within CRI Landfill (Hobbs, NM). Total waste hauled off to date included 378 c	
March 21, 2013 (Thursday)	Entact continued to load pit material within 7-20 cy belly dump trucks. The trucks completed 3 trips, totaling 378 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 756 cys.	
March 22, 2013 (Friday)	Entact continued to load pit material within 8-20 cy belly dump trucks. The trucks completed 3 trips, totaling 432 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 1,188 cys.	
March 23, 2013 (Saturday)	Entact continued to load pit material within 8-20 cy belly dump trucks. The trucks completed 3 trips, totaling 432 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 1,620 cys.	
March 25, 2013 (Monday)	Entact continued to load pit material within 8-20 cy belly dump trucks. The trucks completed 3 trips, totaling 432 cy o pit material disposed within CRI Landfill. Total waste haulo off to date includes 2,052 cys.	
March 26, 2013 (Tuesday)	Entact continued to load pit material within 8-20 cy belly dump trucks. The trucks completed 3 trips, totaling 432 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 2,484 cys.	
March 27, 2013 (Wednesday)	Entact continued to load pit material within 7-20 cy belly dump trucks. The trucks completed 3 trips, totaling 378 cy of pit material disposed within CRI Landfill. Total waste hauled	

	off to date includes 2,862 cys.
March 28, 2013 (Thursday)	Entact continued to load pit material within 7-20 cy belly dump trucks. The trucks completed 1 trip, totaling 126 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 2,988 cys. Entact constructed entry/exit ramps within the excavated pit at the southeast end. Entact and CRA DMOB from site for Easter Holiday
March 29-31, 2013	Off for Easter Holiday
April 1, 2013	Entact and CRA MOB back to site. No loads hauled off site
(Monday)	today.
April 2, 2013 (Tuesday)	Entact continued to load pit material within 7-20 cy belly dump trucks. The trucks completed 3 trips, totaling 378 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 3,366 cys. Completed haul off of pit material.
April 3, 2013	Entact constructs entry/exit ramp at the northeast end of the
(Wednesday)	excavated pit and levels excavated pit floor in preparation of the soil boring rig. Barricade excavation.
April 4, 2013 (Thursday)	Demob equipment and move trailer over to CVU 342 site.
April 25, 2013	Performed site inspection and found barricade on west side of
(Thursday)	excavation was down. Contacted Entact (C. Bell) who came out and repaired barricade.
May 7, 2013 (Tuesday)	Receive Vacuum FMT approval of dig plan and excavation permit to work. CRA and Harrison and Cooper (H&C) mobilize to Site. SWA is issued for ramp construction. RWI performs dirt work/ramp construction. Completed sampling and soil boring (SB-1) within excavated pit.
May 8, 2013 (Wednesday)	Receive Vacuum FMT excavation permit to work. CRA and H&C mob to Site. Completed sampling and soil borings (SB-2 and SB-3) within the excavated pit.
June 5, 2013 (Wednesday)	CRA (Tom Larson) and Kegan Boyer (CEMC) mob to NMOCI District I, Hobbs office for meeting regarding closure activities
June 29, 2013 (Saturday)	Mobilization of equipment from CVU-342 to O-State occurred today. Ready for work start 07/01/13.
July 1, 2013 (Monday)	On-Site personnel attend FMT briefing meeting. Receive FMT PTW. SWA is initiated due to weather. Trucks are sent home. Backfill using stockpile material commenced today. Stockpile material has been utilized to completion of backfill activities for day. Site secured at EOD.
July 2, 2013 (Tuesday)	On-Site personnel attend FMT briefing meeting. Receive FMT PTW. RWI on-site w/ 4 trucks. Backfill activities begin w/ loads from borrow pit location. 62 loads of material today. 1116 cy of material to date. Site secured at EOD.
July 3, 2013 (Wednesday)	On-Site personnel attend FMT briefing meeting. Receive FMT PTW. RWI on-site w/ 4 trucks. Down time for trucks today, due to Dozer catch-up. Dirt work for preparation to lay liner.

July 3, 2013	Pit is ready for liner install on July 5th. 24 truckloads hauled
(Wednesday)	today, totaling 432 cy today and 1548 cy hauled to date. Site secured at EOD.
July 4, 2013 (Thursday)	NO WORK TODAY – JULY 4 TH HOLIDAY
July 5, 2013 (Friday)	On-Site personnel attend FMT briefing meeting. Receive FMT PTW. RWI on-site w/ 4 trucks. Liner installation began and was completed today. Backfilling activities resumed. Total of 56 truckloads hauled today, totaling 1008 cy for day, and 2556
July 6, 2013	cy hauled to date.On-Site personnel attend FMT briefing meeting. Receive FMT
(Saturday)	PTW. RWI on-site w/ 4 trucks. Dozer having trouble keeping up with truckloads, trucks slowed down. Worked an extra hour today. Backfill complete. Topsoil haul start tomorrow. A total of 56 truckloads hauled today, totaling 1008 cy for day, and 3564 cy hauled to date.
July 8, 2013 (Monday)	On-Site personnel attend FMT briefing meeting. Receive FMT PTW. RWI on-site w/ 4 trucks. Hauling of topsoil is completed today. A total of 26 loads, 9 per truck where hauled today. End of day haul total is 468 cy. This marks the end of backfilling activities. Total project backfill hauled to date is 4,032 cy. Site has been graded and seeded w/ BLM #4 seed mixture. Demote of machines will take place July 9, 2013. Site is clean and secure.



PHOTO 1: View of reserve pit facing north before any remedial work activities



PHOTO 2: View of reserve pit facing south before any remedial work activities





PHOTO 3: View of excavation/waste removal activities



PHOTO 4: View of excavation/waste removal activities facing southwest





PHOTO 5: View of excavated reserve pit facing south



PHOTO 6: View of excavated pit and entrance ramp facing north



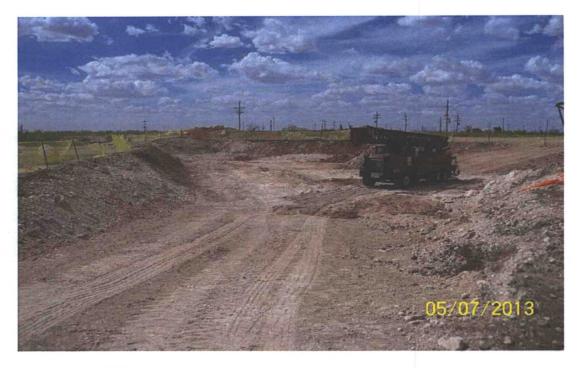


PHOTO 7: View of drill rig inside excavated reserve pit facing north



PHOTO 8: View of backfill activities facing north





PHOTO 9: View of backfill activities facing west



PHOTO 10: View of backfilling activities facing south





PHOTO 9: View of backfill ready for 20 mil poly liner installation facing northwest



PHOTO 11: View of 20 mil poly liner installation facing southeast



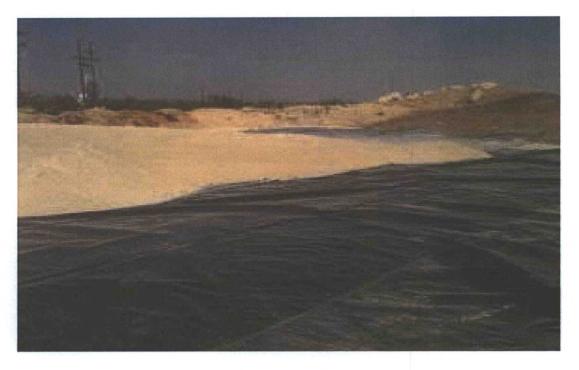


PHOTO 12: View of 20 mil poly liner installation/backfill facing northwest



PHOTO 13: View of final grading and seeding activities facing north



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ANALYTICAL RESULTS

Prepared by:

Lancaster

Laboratories

Prepared for:

Analysis Report

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

March 19, 2013

Project: NM "O" State

Submittal Date: 03/15/2013 Group Number: 1375688 PO Number: 4056668 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description CVX-NMO-02 Composite Soil

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Lancaster Labs (LLI) # 6984188

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

ELECTRONIC COPY TO ELECTRONIC COPY TO Conestoga-Rovers & Associates Conestoga-Rovers & Associates Attn: Ryan Kainer

Attn: Chris Knight

Respectfully Submitted,

Wendy a. Konn

Wendy A. Kozma Principal Specialist Group Leader

(717) 556-7257

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Lancaster Laboratories

Analysis Report

LLI Sample # SW 6984188

11713

LLI Group # 1375688

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

Sample Description: CVX-NMO-02 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 16:30 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:26

Conestoga-Rovers & Associates

Account

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

NMO02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor	
GC Vol	latiles	SW-846	8015B	mg/kg	mg/kg		
01638	TPH-GRO soil C6-C10		n.a.	1.7	1.1	25.41	
GC Vol	latiles	SW-846	8021B	mg/kg	mg/kg		
08179	Benzene		71-43-2	0.0055 J	0.0056	25.41	
08179	Ethylbenzene		100-41-4	0.023	0.0056	25.41	
	Toluene		108-88-3	0.012	0.0056	25.41	
	Total Xylenes		1330-20-7	0.078	0.017	25.41	
GC Pet	croleum	SW-846	8015B	mg/kg	mg/kg		
Hydrod	carbons						
	TPH-DRO soil C10-C28	8	n.a.	27	13	1	
GC Pet	croleum	SW-846	8015B modified	mg/kg	mg/kg		
Hydrod	carbons						
-	#4 Fuel Oil		68476-31-3	N.D.	13	1	
	Coal Tar Oil		8001-58-9	N.D.	13	1	
	Diesel/#2 Fuel		68334-30-5	N.D.	13	1	
	#6 Fuel Oil		68553-00-4	N.D.	100	1	
	Gasoline		8006-61-9	N.D.	13	1	
	Kerosene		8008-20-6	N.D.	13	1	
	Mineral Spirits		8030-30-6	N.D.	13	1	
	Motor Oil		n.a.	N.D.	33	1	
that	quantitation is based of a hydrocarbon com n-octane) through C40	mponent mi	ix calibration in a				
Wet Ch	nemistry	EPA 300	0.0	mg/kg	mg/kg		
07333	Chloride by IC (sol:	id)	16887-00-6	11,900	5,480	500	
Wet Ch	nemistry	SM 2540	0 G-1997	96	8		
00111	Moisture		n.a.	9.9	0.50	1	
				e sample after oven dryin reported above is on an	ng 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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution
	TPH-GRO soil C6-C10	SW-846 8015B	1	13077A16A	03/18/2013 2		Laura M Krieger	25.41
			T				-	
08179	BTEX by 8021	SW-846 8021B	1	13077A16A	03/18/2013 2	20:40	Laura M Krieger	25.41
01150	GC - Bulk Soil Prep	SW-846 5035A	1	201307430405	03/15/2013 1	15:45	Mitchell R Washel	n.a.
		Modified						





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Sample Description: CVX-NMO-02 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 16:30 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:26

NMO02

LLI	Sample	#	SW	6984188
LLI	Group	#	137	75688
Acco	ount	#	117	713

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

		Labora	atory Sa	mple Analys:	is Record			
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	130740008A	03/19/2013	02:48	Christine E Dolman	1
05256	TPH by GC-FID (Soils)	SW-846 8015B modified	1	130740009A	03/18/2013	19:50	Heather E Williams	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	130740008A	03/16/2013	08:00	Joseph S Feister	1
04833	Extraction / Fuel TPH (Soils)	SW-846 3550B	1	130740009A	03/16/2013	08:00	Joseph S Feister	1
07333	Chloride by IC (solid)	EPA 300.0	1	13074074201A	03/16/2013	02:24	Christopher D Meeks	500
01352	Deionized Water Extraction	EPA 300.0	1	13074074201A	03/15/2013	06:50	Nancy J Shoop	1
00111	Moisture	SM 2540 G-1997	1	13074820001B	03/15/2013	18:51	Scott W Freisher	1

Analysis Report

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Page 1 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:26 PM

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Group Number: 1375688

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

Analysis Name	Blank <u>Result</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max	
Batch number: 13077A16A Benzene Ethylbenzene Toluene TPH-GRO soil C6-C10 Total Xylenes Batch number: 130740008A	Sample numb N.D. N.D. N.D. N.D. N.D. Sample numb	0.0050 0.0050 0.0050 1.0 0.015	mg/kg mg/kg mg/kg mg/kg mg/kg	90 92 93 80 91	92 95 94 82 94	80-120 80-120 80-120 67-119 80-120	2 3 2 2 3	30 30 30 30 30 30	
TPH-DRO soil C10-C28 Batch number: 130740009A #4 Fuel Oil Coal Tar Oil Diesel/#2 Fuel #6 Fuel Oil	N.D. Sample numb N.D. N.D. N.D. N.D. N.D.	12. 12. 12. 90.	mg/kg mg/kg mg/kg mg/kg	92		76-120 71-124			
Gasoline Kerosene Mineral Spirits Motor Oil Batch number: 13074074201A	N.D. N.D. N.D. Sample numb	12. 12. 12. 30. er(s): 698		104		90-110			
Chloride by IC (solid) Batch number: 13074820001B Moisture	N.D. Sample numb		mg/kg 84188	104		99-110			

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 %REC	MSD <u>%REC</u>	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP <u>Conc</u>	DUP RPD	Dup RPD Max
Batch number: 130740008A TPH-DRO soil C10-C28	Sample : 81	number(s)	: 6984188 30-159	UNSPK:	P9841	86 BKG: P98 6.4 J	4186 5.4 J	17 (1)	20
Batch number: 130740009A #4 Fuel Oil Coal Tar Oil Diesel/#2 Fuel #6 Fuel Oil	Sample : 92	number(s)	: 6984188 37-129	UNSPK:	NMO01	BKG: NMO01 N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	0 (1) 0 (1) 0 (1) 0 (1)	20 20 20 20

*- Outside of specification

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

Analysis Report

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Page 2 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:26 PM

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Group Number: 1375688

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

<u>Analysis Name</u> Gasoline Kerosene Mineral Spirits Motor Oil	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc N.D. N.D. N.D. N.D.	DUP <u>Conc</u> N.D. N.D. N.D. N.D.	DUP <u>RPD</u> 0 (1) 0 (1) 0 (1) 0 (1)	Dup RPD <u>Max</u> 20 20 20 20 20 20 20
Batch number: 13074074201A Chloride by IC (solid)	Sample 154*	number(s	s): 6984188 90-110	UNSPK	: P9822	229 BKG: 22.4	P982229 19.4	14 (1)	20
Batch number: 13074820001B Moisture	Sample	number(s	3): 6984188	BKG:	P98216	52 14.1	15.8	11	13

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

	mber: 13077A16A	T-iferentelinene D	
	Trifluorotoluene-F	Trifluorotoluene-P	
5984188	70	82	
Blank	86	96	
LCS	80	90	
LCSD	83	90	
limits:	61-122	73-117	
Analysis	Name: TPH-DRO soi	l C10-C28	
Batch nu	mber: 130740008A		
	Orthoterphenyl		
5984188	81		
Blank	94		
DUP	79		
LCS	96		
MS	89		
Limits:	52-136		
Analysis	Name: TPH by GC-H	ID (Soils)	
Analysis		ID (Soils)	
analysis	Name: TPH by GC-H	ID (Soils) Orthoterphenyl	
Analysis Batch nu	Name: TPH by GC-H mber: 130740009A	Orthoterphenyl 91	
Analysis Batch nu	Name: TPH by GC-F mber: 130740009A Chlorobenzene	Orthoterphenyl	
Analysis Batch nu 5984188 Blank	Name: TPH by GC-F mber: 130740009A Chlorobenzene 84	Orthoterphenyl 91	
Analysis	Name: TPH by GC-H mber: 130740009A Chlorobenzene 84 88	Orthoterphenyl 91 98	

*- Outside of specification

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



Analysis Report

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Page 3 of 3

Quality Control Summary

Surrogate Quality Control

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:26 PM Group Number: 1375688

Limits: 46-131

51-127

Page 6 of 8

*- Outside of specification

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

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	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:

Α

Organic Qualifiers

- 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 ≥IDL
- E Estimated due to interference
 M Duplicate injection precision not it
- 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.

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Client: Conestoga-Rovers & Associates	193 T.	1911			Γ	Matrix					1	Analys	ses	Reque	sted	10-16	For Lab Us	e Only
Project Name/#: NM "O" State - 073824	Site ID #:							1			-		-	ion Co	Concession in the local division of the	19 191	SF #:	
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Sampler: Glenn Quinney	PWSID #:	1			Sediment	Ground Surface					1						Preservat	ion Codes
Phone #: 432-686-0086	Quote #:				Sedi			Sleu									a second	T = Thiosulfat
State where sample(s) were collected: New M	exico	8.41.514		1	1	e su		ntal			÷						Sec. 185	B = NaOH
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Sample Identification	Date	Time	Grab	Com	Soil	Water	Other:	Tota	Hat	Chlo	BTE					1 . 22	Rem	arks
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Analysis Report

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

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

March 19, 2013

Project: NM "O" State

Submittal Date: 03/15/2013 Group Number: 1375689 PO Number: 4056668 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description CVX-NMO-03 Composite Soil

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Lancaster Labs (LLI) # 6984189

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

ELECTRONIC COPY TO ELECTRONIC COPY TO

Conestoga-Rovers & Associates

Conestoga-Rovers & Associates

Attn: Ryan Kainer

Attn: Chris Knight

Respectfully Submitted,

Wendy a. Logn

Wendy A. Kozma Principal Specialist Group Leader

(717) 556-7257

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Lancaster Laboratories



Account

LLI Sample # SW 6984189 LLI Group # 1375689

11713

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

Sample Description: CVX-NMO-03 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:00 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:27 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

NMO03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC Vo	latiles	SW-846	8015B	mg/kg	mg/kg	
01638	TPH-GRO soil C6-C10		n.a.	17	1.1	24.06
GC Vo	latiles	SW-846	8021B	mg/kg	mg/kg	
08179	Benzene		71-43-2	0.0086	0.0054	24.06
08179	Ethylbenzene		100-41-4	0.071	0.0054	24.06
08179	Toluene		108-88-3	0.018	0.0054	24.06
	Total Xylenes		1330-20-7	0.15	0.016	24.06
GC Pe	troleum	SW-846	8015B	mg/kg	mg/kg	
Hydro	carbons					
	TPH-DRO soil C10-C28	3	n.a.	99	13	1
GC Pe	troleum	SW-846	8015B modified	mg/kg	mg/kg	
Hydro	carbons					
05256	#4 Fuel Oil		68476-31-3	N.D.	13	1
05256	Coal Tar Oil		8001-58-9	N.D.	13	1
	Diesel/#2 Fuel		68334-30-5	N.D.	13	1
	#6 Fuel Oil		68553-00-4	61 J	100	1
	Gasoline		8006-61-9	N.D.	13	1
	Kerosene		8008-20-6	N.D.	13	1
	Mineral Spirits		8030-30-6	N.D.	13	1
	Motor Oil		n.a.	N.D.	34	1
that	quantitation is based of a hydrocarbon com n-octane) through C40	ponent mi	x calibration in a	f the sample pattern to a range that includes ydrocarbons.		
Wet C	hemistry	EPA 300	0.0	mg/kg	mg/kg	
07333	Chloride by IC (soli	id)	16887-00-6	9,260	5,540	500
Wet C	hemistry	SM 2540	G-1997	8	95	
	Moisture		n.a.	10.8	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.

		Labora	atory Sa	mple Analys:	is Record		
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	13077A16A	03/18/2013 21:18	Laura M Krieger	24.06
08179	BTEX by 8021	SW-846 8021B	1	13077A16A	03/18/2013 21:18		
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201307430405	03/15/2013 15:47		24.06 n.a.



Analysis Report

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Sample Description: CVX-NMO-03 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:00 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:27 LLI Sample # SW 6984189 LLI Group # 1375689 Account # 11713

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

NMO03

Laboratory Sample Analysis Record

Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
				Date and Ti	me		Factor
TPH-DRO soil C10-C28	SW-846 8015B	1	130740008A	03/19/2013	03:11	Christine E Dolman	1
TPH by GC-FID (Soils)	SW-846 8015B modified	1	130740009A	03/18/2013	20:36	Heather E Williams	1
Extraction - DRO (Soils)	SW-846 3550B	1	130740008A	03/16/2013	08:00	Joseph S Feister	1
Extraction / Fuel TPH (Soils)	SW-846 3550B	1	130740009A	03/16/2013	08:00	Joseph S Feister	1
Chloride by IC (solid)	EPA 300.0	1	13074074201A	03/16/2013	02:40	Christopher D Meeks	500
Deionized Water Extraction	EPA 300.0	1	13074074201A	03/15/2013	06:50	Nancy J Shoop	1
Moisture	SM 2540 G-1997	1	13074820001B	03/15/2013	18:51	Scott W Freisher	1
	TPH-DRO soil C10-C28 TPH by GC-FID (Soils) Extraction - DRO (Soils) Extraction / Fuel TPH (Soils) Chloride by IC (solid) Deionized Water Extraction	Analysis NameTPH-DRO soil C10-C28SW-846 8015BTPH by GC-FID (Soils)SW-846 8015BmodifiedExtraction - DRO (Soils)SW-846 3550BExtraction / Fuel TPHSW-846 3550B(Soils)Chloride by IC (solid)Deionized WaterEPA 300.0ExtractionExtraction	Analysis NameITTAI#TPH-DRO soil C10-C28SW-846 8015B1TPH by GC-FID (Soils)SW-846 8015B1modifiedmodifiedExtraction - DRO (Soils)SW-846 3550B1Extraction / Fuel TPHSW-846 3550B1(Soils)Chloride by IC (solid)EPA 300.01Deionized WaterEPA 300.01Extraction	Analysis Name Friat# Batch# TPH-DRO soil Cl0-C28 SW-846 8015B 1 130740008A TPH by GC-FID (Soils) SW-846 8015B 1 130740009A modified 1 130740008A Extraction - DRO (Soils) SW-846 3550B 1 130740008A Extraction / Fuel TPH SW-846 3550B 1 130740009A (Soils) Chloride by IC (solid) EPA 300.0 1 13074074201A Deionized Water EPA 300.0 1 13074074201A	Analysis Name Analysis Analysis Analysis TPH-DRO soil Clo-C28 SW-846 8015B 1 130740008A 03/19/2013 TPH by GC-FID (Soils) SW-846 8015B 1 130740009A 03/18/2013 modified 1 130740008A 03/16/2013 Extraction - DRO (Soils) SW-846 3550B 1 130740009A 03/16/2013 Extraction / Fuel TPH SW-846 3550B 1 130740009A 03/16/2013 (Soils) Chloride by IC (solid) EPA 300.0 1 13074074201A 03/16/2013 Deionized Water EPA 300.0 1 13074074201A 03/15/2013	Analysis Name Intervention Interventis in the interve	Analysis NameTrial# Batch#AnalysisAnalysisAnalysisTPH-DRO soil Clo-C28SW-846 8015B1130740008A03/19/201303:11Christine E DolmanTPH by GC-FID (Soils)SW-846 8015B1130740009A03/18/201320:36Heather E Williamsmodified1130740008A03/16/201308:00Joseph S FeisterExtraction - DRO (Soils)SW-846 3550B1130740009A03/16/201308:00Joseph S FeisterExtraction / Fuel TPHSW-846 3550B113074074201A03/16/201308:00Joseph S Feister(Soils)Chloride by IC (solid)EPA 300.0113074074201A03/16/201302:40Christopher D MeeksDeionized WaterEPA 300.0113074074201A03/15/201306:50Nancy J Shoop

Analysis Report

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Page 1 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:27 PM

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Group Number: 1375689

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

Analysis Name	Blank <u>Result</u>	Blank <u>LOO</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 13077A16A	Sample num	ber(s): 698	34189					
Benzene	N.D.	0.0050	mg/kg	90	92	80-120	2	30
Ethylbenzene	N.D.	0.0050	mg/kg	92	95	80-120	3	30
Toluene	N.D.	0.0050	mg/kg	93	94	80-120	2	30
TPH-GRO soil C6-C10	N.D.	1.0	mg/kg	80	82	67-119	2	30
Total Xylenes	N.D.	0.015	mg/kg	91	94	80-120	3	30
Batch number: 130740008A	Sample num	ber(s): 698	34189					
TPH-DRO soil C10-C28	N.D.	12.	mg/kg	92		76-120		
Batch number: 130740009A	Sample num	ber(s): 698	34189					
#4 Fuel Oil	N.D.	12.	mg/kg					
Coal Tar Oil	N.D.	12.	mg/kg					
Diesel/#2 Fuel	N.D.	12.	mg/kg	101		71-124		
#6 Fuel Oil	N.D.	90.	mg/kg					
Gasoline	N.D.	12.	mg/kg					
Kerosene	N.D.	12.	mg/kg					
Mineral Spirits	N.D.	12.	mg/kg					
Motor Oil	N.D.	30.	mg/kg					
Batch number: 13074074201A	Sample num	ber(s): 698	34189					
Chloride by IC (solid)	N.D.	10.0	mg/kg	104		90-110		
Batch number: 13074820001B	Sample num	ber(s): 698	34189					
Moisture				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 %REC	MSD <u>%REC</u>	MS/MSD Limits	RPD	RPD MAX	BKG <u>Conc</u>		DUP Conc		DUP RPD	Dup RPD <u>Max</u>
Batch number: 130740008A TPH-DRO soil C10-C28	Sample 81	number(s)	: 6984189 30-159	UNSPK:	P9841	86 BKG: 6.4	P984 J	1186 5.4	J	17 (1)	20
Batch number: 130740009A #4 Fuel Oil Coal Tar Oil	Sample	number(s)	: 6984189	UNSPK:	NMO01	BKG: NN N.D. N.D.	M001	N.D. N.D.		0 (1) 0 (1)	20 20
Diesel/#2 Fuel #6 Fuel Oil	92		37-129			N.D. N.D.		N.D. N.D.		0 (1) 0 (1)	20 20

*- Outside of specification

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

Analysis Report

Group Number: 1375689

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:27 PM

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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

<u>Analysis Name</u> Gasoline Kerosene Mineral Spirits Motor Oil	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG Conc N.D. N.D. N.D. N.D.	DUP Conc N.D. N.D. N.D. N.D.	DUP <u>RPD</u> 0 (1) 0 (1) 0 (1) 0 (1) 0 (1)	Dup RPD Max 20 20 20 20
Batch number: 13074074201A Chloride by IC (solid)	Sample 154*	number(s	s): 6984189 90-110	9 UNSPK	: P9822			14 (1)	20
Batch number: 13074820001B Moisture	Sample	number(s	3): 6984189	9 BKG:	P98216	52 14.1	15.8	11	13

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

	Trifluorotoluene-F	Trifluorotoluene-P	
6984189	74	70*	
Blank	86	96	
LCS	80	90	
LCSD	83	90	
imits:	61-122	73-117	and the second
	Name: TPH-DRO so	il C10-C28	
Batch nu	mber: 130740008A		
	Orthoterphenyl		
5984189	79		The second s
Blank	94		
DUP	79		
LCS	96		
IS	89		
	52-136		
Limits:	52-136		
Analysis	Name: TPH by GC-	FID (Soils)	
Analysis	Name: TPH by GC- mber: 130740009A		
nalysis	Name: TPH by GC-	FID (Soils) Orthoterphenyl	
Analysis Batch nu	Name: TPH by GC- mber: 130740009A		
Analysis Batch nu	Name: TPH by GC- mber: 130740009A Chlorobenzene	Orthoterphenyl	
Analysis Batch nu 5984189 Blank	Name: TPH by GC- mber: 130740009A Chlorobenzene 86	Orthoterphenyl	
Analysis	Name: TPH by GC- mber: 130740009A Chlorobenzene 86 88	Orthoterphenyl 74 98	

*- Outside of specification

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



Analysis Report

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Page 3 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:27 PM Group Number: 1375689

Surrogate Quality Control

Limits: 46-131

51-127

*- Outside of specification

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

Environmental Services Analysis Request/Chain of Custody

Client: Conestoga-Rovers & Associates	11					Matrix			1.1		A	nalyses	Requ	este	d		For Lab U	se Only
Project Name/#: NM "O" State - 073824	Site ID #:						1			199	F	reserva	tion C	Code	s	1.5	SF #:	
Project Manager: Ryan Kainer	P.O. #:				=	8 9			0	0	0				24		SCR #:	
Sampler: Glenn Quinney	PWSID #:				Sediment	Ground Surface											Preserva	tion Codes
Phone #: 432-686-0086	Quote #:	1.11		1	Sed		1	ner	10.0								H = HCI	T = Thiosulfat
State where sample(s) were collected: New Me	xico		1 4		1	e se		Intal		0					支援	Re di	N = HNO3	B = NaOH
	Colle	ction		sod	7	er NPDES		Total # of Containers	TPH 8015	Chlorides 300	BTEX 8021						$S = H_2SO_4$ O = Other	$P = H_3PO_4$
Sample Identification	Date	Time	Grab	Con	Soil	Water	Other:	Tota	HAL	Chlo	BTE			2	1			narks
CVX-NMO-03	3/13/13	1700		x	x			2	x	x	x							
										1								
		-		-	-	34				_								
				-	_		-	-							-			
				-	-			-	-	-			-					
		-		-		-		-							-			
		12.14		+		-			1		-	-			-			
		1.025210		-					2.10		-							1
and the second second						147											1000	
Turnaround Time Requested (TAT) (please che (Rush TAT is subject to Lancaster Laboratories		dard surcharges.		I F	Relin	guished	by:	5	1	3/14		Time 1600	Rece	eived t	by:		Date	Time
Date results are needed: 48 hrs		100		F	Relia	quished	by:/			Da	ite	Time	Rece	eived t	oy:	1.1.2	Date	Time
Rush results requested by (please check): E-N	Nail 🔽	Phon	e 🗌					1				-				/	d'and	124
E-mail Address: <u>rkainer@craworld.com</u> Phone: 432-686-0086				F	Relin	quished	by:	/		Da	ite	Time	Rece	eived t	by:	/	Date	Time
Data Package Options (please check if required Type I (Validation/non-CLP) MA MCF				F	Relin	quished	by:	p		Da	ite	Time	Rece	eived t	oy:		Date	Time
Type III (Reduced non-CLP) CT RCP				F	Relin	quished	by:		1	Da	ite	Time	Rece	eived t	oy:	1-1-1	Date	Time
Type IV (CLP SOW) TX TRR	P-13					() eu	1	1	40			19.31	F	at	- 4/4	(3/15/13	0915
Гуре VI (Raw Data Only)		- Andre	100	f	Relin	quished	100		rcial	Carrie	r:				-		14	
EDD Required? Yes 🗌 No 🔲 If y	es, format:				JPS		FedE	××		Other			Tem	peratu	ire upoi	n receip	1.4	°C

£:

Page 7 of 8

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Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	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)	μι	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:

Α

Organic Qualifiers

- 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
- 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 \geq 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.

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ANALYTICAL RESULTS

Prepared by:

Lancaster

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

March 19, 2013

Project: NM "O" State

Submittal Date: 03/15/2013 Group Number: 1375690 PO Number: 4056668 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description CVX-NMO-SP Composite Soil

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Lancaster Labs (LLI) # 6984190

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

ELECTRONIC COPY TO **ELECTRONIC** COPY TO

Conestoga-Rovers & Associates Conestoga-Rovers & Associates Attn: Ryan Kainer

Attn: Chris Knight

Respectfully Submitted,

Wendy a. Longn

Wendy A. Kozma Principal Specialist Group Leader

(717) 556-7257

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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: CVX-NMO-SP Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:15 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:55 Account # 11713

LLI Sample # SW 6984190

LLI Group # 1375690

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

NMOSP

CAT No. Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC Volatiles	SW-846	8015B	mg/kg	mg/kg	
01638 TPH-GRO soil	C6-C10	n.a.	0.2 J	1.1	25.83
GC Volatiles	SW-846	9021P	mg/kg	mg/kg	
	DW-040				25 02
08179 Benzene		71-43-2	N.D.	0.0053	25.83
08179 Ethylbenzene		100-41-4	0.0021 J	0.0053	25.83
08179 Toluene		108-88-3	N.D.	0.0053	25.83
08179 Total Xylenes		1330-20-7	N.D.	0.016	25.83
GC Petroleum	SW-846	8015B	mg/kg	mg/kg	
Hydrocarbons					
08270 TPH-DRO soil	C10-C28	n.a.	42	12	1
GC Petroleum	SW-846	8015B modifie	d mg/kg	mg/kg	
Hydrocarbons					
05256 #4 Fuel Oil		68476-31-3	N.D.	12	1
05256 Coal Tar Oil		8001-58-9	N.D.	12	1
05256 Diesel/#2 Fue	1	68334-30-5	N.D.	12	1
05256 #6 Fuel Oil	-	68553-00-4	N.D.	93	1
05256 Gasoline		8006-61-9	N.D.	12	1
05256 Kerosene		8008-20-6	N.D.	12	1
05256 Mineral Spiri	ta	8030-30-6	N.D.	12	1
05256 Motor Oil	60	n.a.	140	31	1
TPH quantitation is	bon component mi	x calibration in	f the sample pattern to a range that includes ydrocarbons.		
Wet Chemistry	EPA 300	.0	mg/kg	mg/kg	
07333 Chloride by I	C (solid)	16887-00-6	809	205	20
Wet Chemistry	SM 2540	G-1997	8	96	
00111 Moisture		n.a.	3.3	0.50	1
"Moisture" re	rees Celsius. Th	s in weight of th	ne sample after oven dry reported above is on a	ying 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.

Laboratory	Sample	Analysi	s Record
------------	--------	---------	----------

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Tin	ne		Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	13077A16A	03/18/2013	21:56	Laura M Krieger	25.83
08179	BTEX by 8021	SW-846 8021B	1	13077A16A	03/18/2013	21:56	Laura M Krieger	25.83
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201307430405	03/15/2013	15:49	Mitchell R Washel	n.a.



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: CVX-NMO-SP Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:15 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:55

LLI Sample # SW 6984190 LLI Group # 1375690 Account # 11713

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

NMOSP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	me	Analyst	Dilution
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	130740008A	03/19/2013	03:34	Christine E Dolman	1
05256	TPH by GC-FID (Soils)	SW-846 8015B modified	1	130740009A	03/18/2013	21:21	Heather E Williams	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	130740008A	03/16/2013	08:00	Joseph S Feister	1
04833	Extraction / Fuel TPH (Soils)	SW-846 3550B	1	130740009A	03/16/2013	08:00	Joseph S Feister	1
07333	Chloride by IC (solid)	EPA 300.0	1	13074074201A	03/19/2013	11:02	Christopher D Meeks	20
01352	Deionized Water Extraction	EPA 300.0	1	13074074201A	03/15/2013	06:50	Nancy J Shoop	1
00111	Moisture	SM 2540 G-1997	1	13074820001B	03/15/2013	18:51	Scott W Freisher	1

Analysis Report

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Page 1 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:55 PM

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Group Number: 1375690

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

Analysis Name	Blank <u>Result</u>	Blank LOQ	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD Limits	RPD	<u>RPD Max</u>
Batch number: 13077A16A	Sample nur	mber(s): 698	84190					
Benzene	N.D.	0.0050	mg/kg	90	92	80-120	2	30
Ethylbenzene	N.D.	0.0050	mg/kg	92	95	80-120	3	30
Toluene	N.D.	0.0050	mg/kg	93	94	80-120	2	30
TPH-GRO soil C6-C10	N.D.	1.0	mg/kg	80	82	67-119	2	30
Total Xylenes	N.D.	0.015	mg/kg	91	94	80-120	3	30
Batch number: 130740008A	Sample nur	mber(s): 698	84190					
TPH-DRO soil C10-C28	N.D.	12.	mg/kg	92		76-120		
Batch number: 130740009A	Sample nur	mber(s): 698	84190					
#4 Fuel Oil	N.D.	12.	mg/kg					
Coal Tar Oil	N.D.	12.	mg/kg					
Diesel/#2 Fuel	N.D.	12.	mg/kg	101		71-124		
#6 Fuel Oil	N.D.	90.	mg/kg					
Gasoline	N.D.	12.	mg/kg					
Kerosene	N.D.	12.	mg/kg					
Mineral Spirits	N.D.	12.	mg/kg					
Motor Oil	N.D.	30.	mg/kg					
Batch number: 13074074201A	Sample nur	mber(s): 698	84190					
Chloride by IC (solid)	N.D.	10.0	mg/kg	104		90-110		
Batch number: 13074820001B	Sample nur	mber(s): 698	84190					
Moisture				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 %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG <u>Conc</u>		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 130740008A TPH-DRO soil C10-C28	Sample 81	number(s)	: 6984190 30-159	UNSPK:	P9841	86 BKG: 6.4	P984 J	1186 5.4	J	17 (1)	20
Batch number: 130740009A #4 Fuel Oil Coal Tar Oil Diesel/#2 Fuel #6 Fuel Oil	Sample	number(s)	: 6984190 37-129	UNSPK:	NMO01	BKG: NN N.D. N.D. N.D. N.D. N.D.	1001	N.D. N.D. N.D. N.D.		0 (1) 0 (1) 0 (1) 0 (1)	20 20 20 20

*- Outside of specification

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

Analysis Report

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

Page 2 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:55 PM

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Group Number: 1375690

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

<u>Analysis Name</u> Gasoline Kerosene Mineral Spirits Motor Oil	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD Limits	<u>RPD</u>	RPD <u>MAX</u>	BKG Conc N.D. N.D. N.D. N.D.	DUP <u>Conc</u> N.D. N.D. N.D. N.D.	DUP <u>RPD</u> 0 (1) 0 (1) 0 (1) 0 (1) 0 (1)	Dup RPD Max 20 20 20 20 20 20 20
Batch number: 13074074201A Chloride by IC (solid)	Sample 154*	number(s): 6984190 90-110) UNSPK	: P9822	229 BKG: 22.4	P982229 19.4	14 (1)	20
Batch number: 13074820001B Moisture	Sample	number(s): 6984190	BKG:	P98216	52 14.1	15.8	11	13

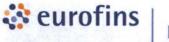
Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

baccii ilu	mber: 13077A16A Trifluorotoluene-F	Trifluorotoluene-P		
	Trinuorotoiuene-F	Thiuorotoluene-P		
5984190	78	90		
Blank	86	96		
LCS	80	90		
LCSD	83	90		
Limits:	61-122	73-117		
	Name: TPH-DRO s			
Batch nu	mber: 1307400087			
	Orthoterphenyl			
5984190	92		The second s	
Blank	94			
DUP	79			
LCS	96			
MS	89			
Limits:	52-136		(Real	
Analysis	Name: TPH by GO	-FID (Soils)		
Batch nu	mber: 1307400097			
	Chlorobenzene	Orthoterphenyl		
984190	86	97		
Blank	88	98		
UP	83	78		
CS	90	93		
IS	122	83		

*- Outside of specification

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



Analysis Report

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Page 3 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:55 PM Group Number: 1375690

Surrogate Quality Control

Limits: 46-131

51-127

*- Outside of specification

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

Environmental Services Analysis Request/Chain of Custody

				-		-	-	-			_		-		-		
Client: Conestoga-Rovers & Associate	S	- 10 m	1.05	_	Matr	ix				A	nalyses	Requ	Jestec	1	For Lab Use Only		
Project Name/#: NM "O" State - 073824	Site ID #:	-	-							F	reserva	tion (Codes		SF #:	_	
Project Manager: Ryan Kainer	P.O. #:		10.00	1	Ground	B		0	0	0					SCR #:	-	
Sampler: Glenn Quinney	PWSID #:			Carlimont	Gro		50								Preserve	tion Codes	
Phone #: 432-686-0086	Quote #:		12	Con			Iner								H = HCI	T = Thiosulfa	
State where sample(s) were collected: New	Mexico			1	Potable	2	onta		8						N = HNO3	B = NaOH	
	Collec	ction		Composite	-		Total # of Containers	TPH 8015	Chlorides 300	BTEX 8021	1				$S = H_2SO_4$ O = Other	P = H ₃ PO ₄	
Sample Identification	Date	Time	Grab	Con	Water	Other:	Tota	TPH	CH	BTE		1.			Ren	narks	
CVX-NMO-SP	3/13/13	1715		x			2	x	x	x					- 1. A. A. A.	14-2	
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Date results are needed: 48 hrs			-	Re	linquishe	dby:			Da		Time	Rece	eived b	A	Date	Time	
Rush results requested by (please check):	E-Mail	Phon	ie 🗆			1	1.1	-			- ANT		1.2.1	1	3.	44	
E-mail Address: <u>rkainer@craworld.com</u> Phone: 432-686-0086				Re	linquishe	d by:	1		Da	ate	Time	Rece	eived b	у:	Date	Time	
Data Package Options (please check if requ Type I (Validation/non-CLP) MA M			1	Re	linquishe	d by:	/		Da	ate	Time	Rece	eived b	y:	Date	Time	
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Type VI (Raw Data Only)			0.1	Re	linquishe	d by C	omme	ercial	Carrie	Hr.			Kar		int 1.4	C. C.	
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Page 7 of 8

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Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

	RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
	N.D.	none detected	MPN	Most Probable Number
	TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
	IU	International Units	NTU	nephelometric turbidity units
u	mhos/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:

Α

Organic Qualifiers

- 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
- 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 ≥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.

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Midland. Texas 79703 Carroliton, Texas 75006

E-Mail. lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

DBE NELAP DoD LELAP WBE HUB NCTRCA Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ryan Kainer **CRA-Midland** 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031406

972-242 -7750

Project Location: Lea Co., NM **Project Name:** NM "O" State #40 Project Number: 073824

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc. Date Time Date

Sample	Description	Matrix	Taken	Taken	Received
323424	CVX-MNO-01	soil	2013-03-13	16:00	2013-03-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Ala

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031406. Samples for work order 13031406 were received intact at a temperature of 2.3 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13031406 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40

Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323424 - CVX-MNO-01

TRPHC	×	Qs	· · · · · · · · · · · · · · · · · · ·	15.	6	mg/Kg	1	10.0
Parameter		Flag	Cert	R Resu	L lt	Units	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	TPH 418.1 99814		Analytical I Date Analy Sample Pre	zed:	E 418.1 2013-03-19 2013-03-19		Prep Method: Analyzed By: Prepared By:	DS

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

TRPHC	0		<5.72	mg/Kg	10
Parameter	Flag	Cert	MDL Result	Units	RL
QC Batch: 9981 Prep Batch: 8456		Date Analyzed: QC Preparation:	2013-03-19 2013-03-19	Analyzed By: Prepared By:	
Method Blank (1) QC Batch: 99814				

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 6 of 9 Lea Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99814 Prep Batch: 84564			Analyzed Preparatio		3-03-19 3-03-19				lyzed B pared B	
Param	F	CI	LCS Result	Units	Dil.	Spike Amount		atrix esult R	lec.	Rec. Limit
TRPHC	2		288	mg/Kg	1	250	<	5.72 1	15	80 - 120
Percent recovery is based on the		LCSD			Spike	Matrix		Rec.		RPD
Param	F C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC		281	mg/Kg	1	250	$<\!5.72$	112	80 - 120	2	20
Percent recovery is based on the	spike resu	llt. RPD	is based o	n the sp	bike and sp	ike duplica	ate rest	ult.		
Matrix Spike (MS-1) Spike	ed Sample	: 323447								
QC Batch: 99814 Prep Batch: 84564			Analyzed Preparatio		3-03-19 3-03-19				lyzed B bared B	

				MS			Spike	Matrix		Rec.
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
TRPHC	Qs	Qs		314	mg/Kg	1	250	166	59	80 - 120
Percent recovery is based or	the spik	e resul	t. RP	D is based	on the spik	e and sp	oike duplicate	e result.		

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC	Qs	Qs		320	mg/Kg	1	250	166	62	80 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch: 998	14		Date A	Analyzed:	2013-03-19		Analy	yzed By: DS
				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC			mg/Kg	100	110	110	80 - 120	2013-03-19

Standard (CCV-2)

QC Batch: 9	9814		Date A	Analyzed:	2013-03-19		Analy	zed By: DS
				CCVs	CCVs	$\rm CCVs$	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC	200		mg/Kg	100	112	112	80 - 120	2013-03-19

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
- U The analyte is not detected above the SDL

Attachments

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40

Page Number: 9 of 9 Lea Co., NM

The scanned attachments will follow this page. Please note, each attachment may consist of more than one page.

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Order
LAB

	TraceAnalysis, I email: lab@traceanalysis.com	iis,] ysis.con	Inc.		6701 Lub Fa	6701 Aberdeen Ave. Ste 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296	ve, Ste 9 s 79424 -1296 -1298 1298		5005 M	5002 Basin Street, Suite A. Midfand, Texas 79703 Tei (432) 689-5313 Fax (432) 689-5313	Suite A1 79703 5301 5313		200 East El Pa Tel Fax	D East Sunset Rd., Suit El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944	200 East Sunset Rd., Suite El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944	u l	25(Ca	BioAquatic Testing 2501 Mayes Rd., Site 100 Carroliton, Texas 75006 Tel (972) 242-7750	quatic Testing tyes Rd., Ste on, Texas 75(372) 242-7750	006	1100		
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Address:	2135 S. Loop 250 West, Midland, TX 79703	idland, T	0797 X		Fax #:										6 -			pecity method	0 NO.	<u>.</u>	-		
Contact Person:	Ryan Kainer	L			E-mail:		rkai	ner@c	rawor	rkainer@craworld.com		T		8 / 200									
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Project #:	73824			<u>a</u>	Project Name:	me:		MN	NM "O" State	ate Pit										IA ,9-4		ste mo	
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200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Texas 79922 El Paso, Midland, Texas 79703 Carroliton. Texas 75006 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

FAX 915-585-4944 432-689-6301 FAX 432-689-6313 972-242 -7750

Certifications

HUB NCTRCA DBE NELAP DoD LELAP WBE Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ryan Kainer CRA-Midland 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031420

Project Location: Lea Co., NM NM "O" State #40 Project Name: Project Number: 073824

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
323446	CVX-MNO-02	soil	2013-03-13	16:30	2013-03-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael (

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

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QC Batch 99814 - $CCV(2)$	 7
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Laboratory Certifications	 8
Standard Flags	
Attachments	

Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031420. Samples for work order 13031420 were received intact at a temperature of 2.3 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13031420 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Work Order: 13031420 NM "O" State #40 Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323446 - CVX-MNO-02

TRPHC		Qs	- Cort	68.2		mg/Kg	1	10.0
Parameter		Flag	Cert	RL Result		Units	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 99814 84564		Analytical Date Analy Sample Pre	zed: 2	E 418.1 2013-03-19 2013-03-19		Prep Method: Analyzed By: Prepared By:	DS

. .

Work Order: 13031420 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

Method Bl	ank (1)	QC Batch: 99814				
QC Batch:	99814		Date Analyzed:	2013-03-19	Analyzed By:	DS
Prep Batch:	84564		QC Preparation:	2013-03-19	Prepared By:	DS
				MDL		
Parameter		Flag	Cert	Result	Units	RL
TRPHC	Sec. 1.			<5.72	mg/Kg	10

Work Order: 13031420 NM "O" State #40

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99814 Prep Batch: 84564				e Analyzed Preparatio		3-03-19 3-03-19			Analyze Preparec	
Param		F	С	LCS Result	Units	Dil.	Spike Amount	Matrix Result		Rec. Limit
TRPHC	_			288	mg/Kg	1	250	< 5.72	115	80 - 120
Percent recovery is based	on the spil	ke resu	ilt. RPD) is based o	on the sp	oike and sp	oike duplica	ate result.		
Param	ī	FC	LCSD Result		Dil.	Spike Amount	Matrix Result		Rec. imit Rl	PD Limit
TRPHC			281	mg/Kg	1	250	<5.72			2 20
Matrix Spike (MS-1)	Spiked S	Sample	: 323447	,						
QC Batch: 99814 Prep Batch: 84564				e Analyzed Preparatio		3-03-19 3-03-19			Analyzee Preparec	
				MS			Spike	Matrix	:	Rec.
Param		\mathbf{F}	C	Result	Units	Dil.	Amount	Result	Rec.	Limit

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC	Qs	Qs		320	mg/Kg	1	250	166	62	80 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Work Order: 13031420 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

TRPHC			mg/Kg	100	110	110	80 - 120	2013-03-19
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
QC Batch: 998	14		Date A	Analyzed:	2013-03-19		Analy	yzed By: DS

Standard (CCV-2)

QC Batch: 99814			Date A	Analyzed:	2013-03-19		Analy	zed By: DS
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC			mg/Kg	100	112	112	80 - 120	2013-03-19

Work Order: 13031420 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100 - 86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
- U The analyte is not detected above the SDL

Attachments

Work Order: 13031420 NM "O" State #40 Page Number: 9 of 9 Lea Co., NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, El Paso, Texas 79424 Texas 79922 Midland, Texas 79703 Carroliton, Texas 75006 E-Mail lab@traceanalysis.com WEB: www.traceanalysis.com

915-585-3443 432-689-6301 972-242 -7750

FAX 915 - 585 - 4944 FAX 432+689+6313

Certifications

HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025 WBE

Analytical and Quality Control Report

Ryan Kainer **CRA-Midland** 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031421

Project Location: Lea Co., NM Project Name: NM "O" State #40 **Project Number:** 073824

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
323447	CVX-MNO-03	soil	2013-03-13	17:00	2013-03-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael (

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031421. Samples for work order 13031421 were received intact at a temperature of 2.3 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13031421 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Work Order: 13031421 NM "O" State #40

Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323447 - CVX-MNO-03 . .

TRPHC		Qs		1	66	mg/Kg	1	10.0
Parameter		Flag	Cert	Res	RL ult	Units	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 99814 84564		Analytical 1 Date Analy Sample Pre	zed:	E 418.1 2013-03-19 2013-03-19		Prep Method: Analyzed By: Prepared By:	DS

Work Order: 13031421 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

Method Blank (1)	QC Batch: 99814				
QC Batch: 99814		Date Analyzed:	2013-03-19	Analyzed By:	DS
Prep Batch: 84564		QC Preparation:	2013-03-19	Prepared By:	DS
			MDL		
Parameter	Flag	Cert	Result	Units	\mathbf{RL}
TRPHC	-	1	<5.72	mg/Kg	10

Prep Batch: 84564

Work Order: 13031421 NM "O" State #40

Page Number: 6 of 9 Lea Co., NM

Prepared By: DS

Limit 20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99814 Prep Batch: 84564			Date Analyze QC Preparat		3-03-19 3-03-19				lyzed By pared By	
Param		F C	LCS Result	Units	Dil.	Spike Amount		atrix esult R	ec.	Rec. Limit
TRPHC		1.11	288	mg/Kg	1	250	<	5.72 1	15 8	80 - 120
Percent recovery is based	on the spike	result. 1	RPD is based	on the sp	oike and sp	ike duplica	ate res	ult.		
		L	CSD		Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	C Re	esult Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC		2	281 mg/K	g 1	250	$<\!5.72$	112	80 - 120	2	20
Percent recovery is based of	on the spike :	result. 1	RPD is based	on the sp	oike and sp	oike duplica	ate res	ult.		
Matrix Spike (MS-1)	Spiked Sam	aple: 32	3447							
QC Batch: 99814			Date Analyze	ed: 201	3-03-19			Anal	lyzed By	y: DS

Param		F	С	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	Qs	Qs		314	mg/Kg	1	250	166	59	80 - 120

QC Preparation: 2013-03-19

Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD
TRPHC	Qs	Qs		320	mg/Kg	1	250	166	62	80 - 120	2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Work Order: 13031421 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch:	99814			Date A	Analyzed:	2013-03-19		Analy	zed By: DS
					CCVs	CCVs	CCVs	Percent	Data
_			~		True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC	1.1			mg/Kg	100	110	110	80 - 120	2013-03-19

Standard (CCV-2)

QC Batch: 99	814		Date A	Analyzed:	2013-03-19		Analy	zed By: DS
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC			mg/Kg	100	112	112	80 - 120	2013-03-19

Work Order: 13031421 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis

Standard Flags

F Description

- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

Work Order: 13031421 NM "O" State #40

Page Number: 9 of 9 Lea Co., NM

The scanned attachments will follow this page. Please note, each attachment may consist of more than one page.

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Texas 79424 Texas 79922 Lubbock. El Paso, Midland, Texas 79703 Carroliton, Texas 75006 E-Mail lab@traceanalysis.com WEB: www.traceanalysis.com

915-585-3443 432-689-6301 972-242 -7750

FAX 806+794+1298 FAX 915-585-4944 FAX 432+689+6313

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Oklahoma Kansas **ISO 17025**

Analytical and Quality Control Report

Ryan Kainer **CRA-Midland** 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031422

Project Location: Lea Co., NM NM "O" State #40 Project Name: Project Number: 073824

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
323448	CVX-MNO-SP	soil	2013-03-13	17:15	2013-03-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael al

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031422. Samples for work order 13031422 were received intact at a temperature of 2.3 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13031422 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Work Order: 13031422 NM "O" State #40 Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323448 - CVX-MNO-SP

TRPHC		Qs		12	22	mg/Kg	1	10.0
Parameter	1	Flag	Cert	H Rest	RL 1lt	Units	Dilution	RL
QC Batch: Prep Batch:	99814 84564		Date Analy Sample Pre		2013-03-19 2013-03-19		Analyzed By: Prepared By:	
Laboratory: Analysis:	Lubbock TPH 418.1		Analytical		E 418.1		Prep Method:	,

Work Order: 13031422 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

Method Blank	(1)	QC Batch: 99814				
QC Batch: 998	814		Date Analyzed:	2013-03-19	Analy	zed By: DS
Prep Batch: 84	564		QC Preparation:	2013-03-19	Prepa	red By: DS
				Μ	DL	
Parameter		Flag	Cert	Res	sult Units	RL
TRPHC		-	1 7 8 8 3 15	<5	5.72 mg/Kg	10

Work Order: 13031422 NM "O" State #40 Page Number: 6 of 9 Lea Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99814 Prep Batch: 84564				e Analyzed Preparatio		3-03-19 3-03-19			Analyz Prepare		
				LCS			Spike	Matrix			Rec.
Param		\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.		Limit
TRPHC				288	$\mathrm{mg/Kg}$	1	250	< 5.72	115	8	80 - 120
Percent recovery is based	on the spike	e resu	lt. RPD) is based o	on the sp	ike and sp	ike duplica	ate result.			
			LCSD			Spike	Matrix	F	Rec.		RPD
					Dil.	Amount	Result			RPD	Limit
Param	F	C	Result	Units	D_{Π} .						
Param TRPHC Percent recovery is based			281	mg/Kg	1	250 vike and sp	<5.72 vike duplica		- 120	2	20
TRPHC Percent recovery is based		e resu	281 lt. RPD	mg/Kg) is based o	1				- 120	2	20
TRPHC Percent recovery is based Matrix Spike (MS-1)	on the spike	e resu	281 lt. RPD 323447	mg/Kg) is based o	1 on the sp				- 120 Analyz		
TRPHC Percent recovery is based Matrix Spike (MS-1) QC Batch: 99814	on the spike	e resu	281 lt. RPD 323447 Date	mg/Kg) is based o	1 on the sp : 2013	ike and sp				ed By	7: DS
TRPHC Percent recovery is based Matrix Spike (MS-1) QC Batch: 99814	on the spike	e resu	281 lt. RPD 323447 Date	mg/Kg) is based o , e Analyzed	1 on the sp : 2013	ike and sp 3-03-19			Analyz Prepare	ed By	7: DS
TRPHC Percent recovery is based Matrix Spike (MS-1) QC Batch: 99814	on the spike	e resu	281 lt. RPD 323447 Date	mg/Kg) is based o e Analyzed Preparatio	1 on the sp : 2013	ike and sp 3-03-19 3-03-19 Dil.	ike duplica	ate result. Matrix	Analyz Prepare	ed By	r: DS

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC	Qs	Qs		320	mg/Kg	1	250	166	62	80 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Work Order: 13031422 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch:	99814			Date A	Analyzed:	2013-03-19		Analy	zed By: DS
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC				mg/Kg	100	110	110	80 - 120	2013-03-19

Standard (CCV-2)

QC Batch: 99	814		Date A	Analyzed:	2013-03-19		Analy	zed By: DS
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC			mg/Kg	100	112	112	80 - 120	2013-03-19

Work Order: 13031422 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
- U The analyte is not detected above the SDL

Attachments

Work Order: 13031422 NM "O" State #40 Page Number: 9 of 9 Lea Co., NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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	TraceAnalysis, I email: lab@traceanalysis.com	, Inc.		67 L	6701 Aberdeen Ave, Ste 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296	n Ave, Ste xas 79424 94-1296 94-1298 8-1296	Ø	۵	5002 Basin Street, Suite A. Midland, Texas 79703 Tei (432) 689-5301 Fax (432) 689-5313	eet, Suite A1 tas 79703 89-6301 89-6313		200 Ea El P Te Fa	200 East Sunset Rd., Suit El Paso, Texas 79922 Tel (915) 585-343 Fax (915) 585-4944	Rd., Suite s 79922 5-3443 5-4944	ш	5 75	BioAquatic Testing 2501 Mayes Rd., Ste 100 Carroliton, Texas 75006 Tei (972) 242-7750	BioAquatic Testing 01 Mayes Rd., Ste 1 rroliton, Texas 750 Tei (972) 242-7750	100 5006			
Company Name:	Conestoga-Rovers & Associates	ociates		Phone #:	#		4:	432-686-0086	-0086				Clorid	ANA	ANALYSIS	2	REQUEST	1. 7	1			
Address:	2135 S. Loop 250 West, Midland, TX 79703	id, TX 797		Fax #:					×		_				specify				No.)	_	_	
Contact Person:	Ryan Kainer			E-mail:		rk	ainer@	Dcraw	rkainer@craworld.com		1		002/80									
Invoice to:		S	SAME AS ABOVE	S ABC	NE						-								kalinity		piebne	
Project #:	73824			Project Name:	Name:			NM "O" State	State Pit										IA ,9-4		ste mo	
Project Location: (Include state)	Buckeve, NM		1.2	Sampler Signature:												.0C\952 54					າງ Jnອາອາາີ	
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Analytical Report 462766

for Conestoga Rovers & Associates

> Project Manager: Tom Larson CEMC NM Ostate #40

> > 073824

16-MAY-13

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



16-MAY-13

Project Manager: **Tom Larson Conestoga Rovers & Associates** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No(s): 462766 CEMC NM Ostate #40 Project Address: New Mexico

Tom Larson:

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) 462766. 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. 462766 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.

Ams Boah

Kelsey Brooks Project Manager

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XENCO Laboratories

Sample Cross Reference 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 5'	S	05-07-13 14:30		462766-001
SB-1 10'	S	05-07-13 14:35		462766-002
SB-1 15'	S	05-07-13 14:40		462766-003
SB-1 20'	S	05-07-13 14:45		462766-004
SB-1 40'	S	05-07-13 14:50		462766-005
SB-1 50'	S	05-07-13 14:55		462766-006
SB-1 70'	S	05-07-13 15:00		462766-007
SB-1 90'	S	05-07-13 15:10		462766-008
SB-2 5'	S	05-08-13 10:20		462766-009
SB-2 10'	S	05-08-13 10:25		462766-010
SB-2 15'	S	05-08-13 10:30		462766-011
SB-2 20'	S	05-08-13 10:35		462766-012
SB-2 40'	S	05-08-13 10:40		462766-013
SB-2 50'	S	05-08-13 10:45		462766-014
SB-2 70'	S	05-08-13 10:50		462766-015
SB-2 90'	S	05-08-13 11:05		462766-016
SB-3 5'	S	05-08-13 12:00		462766-017
SB-3 10'	S	05-08-13 12:05		462766-018
SB-3 15'	S	05-08-13 12:07		462766-019
SB-3 20'	S	05-08-13 12:10		462766-020
SB-3 40'	S	05-08-13 12:13		462766-021
SB-3 50'	S	05-08-13 12:15		462766-022
SB-3 70'	S	05-08-13 12:20		462766-023
SB-3 90'	S	05-08-13 12:25		462766-024



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates Project Name: CEMC NM Ostate #40



Project ID:073824Work Order Number(s):462766

Report Date: 16-MAY-13 Date Received: 05/09/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-913663 Inorganic Anions by EPA 300/300.1 E300

Batch 913663, Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 462766-004, -005, -014, -006, -013, -015, -017, -001, -002, -009, -012, -011, -007, -019, -020, -018, -003, -010. The Laboratory Control Sample for Chloride is within laboratory Control Limits

Project Id: 073824		Proje	ct Nam	e: CEMC	NM Os	state #40							
Contact: Tom Larson							Dat	e Received in	n Lab:	Thu May-09-	13 09:10	am	
roject Location: New Mexico								Report	Date:	16-MAY-13			
Tojet Docation. New Mexico								Project Ma	nager:	Kelsey Brook	s		
	Lab Id:	462766-	001	462766-0	002	462766-0	003	462766-0	004	462766-0	005	462766-0	006
And the Descented	Field Id:	SB-1 :	5'	SB-1 10	0'	SB-1 15	5'	SB-1 2	0'	SB-1 4	0'	SB-1 5	0'
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL	Sec.	SOIL		SOIL		SOIL		SOIL	
and the second second	Sampled:	May-07-13	14:30	May-07-13	14:35	May-07-13	14:40	May-07-13	14:45	May-07-13	14:50	May-07-13	14:55
Inorganic Anions by EPA 300/300.1	Extracted:	May-10-13	May-10-13 10:00		May-10-13 10:00			May-10-13	10:00	May-10-13 10:00		May-10-13	10:00
	Analyzed:	May-10-13	22:10	May-10-13	22:54	May-10-13	23:15	May-10-13	23:37	May-10-13	23:59	May-07-13 14: May-10-13 10: May-11-13 00:	00:20
and the second se	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2090	42.8	2310	43.4	1330	20.9	1800	42.6	1050	21.2	127	4.17
Percent Moisture	Extracted:			1. C. 1. C. P.									
and the second second	Analyzed:	May-09-13	15:00	May-09-13	15:00	May-09-13	15:00	May-09-13	15:00	May-09-13	15:00	May-09-13	15:00
10 instruction (and Theorem	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.51	1.00	7.80	1.00	4.27	1.00	6.00	1.00	5.52	1.00	4.06	1.00

Certificate of Analysis Summary 462766

Conestoga Rovers & Associates, Midland, TX

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Kelsey Brooks Project Manager

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Project Id: 073824 Contact: Tom Larson Project Location: New Mexico

Certificate of Analysis Summary 462766 Conestoga Rovers & Associates, Midland, TX Project Name: CEMC NM Ostate #40



Date Received in Lab: Thu May-09-13 09:10 am

oject Location: New Mexico								Report Project Mar		16-MAY-13 Kelsev Brook	s		
	Lab Id:	462766-0	007	462766-	008	462766-0	009	462766-0	0	462766-0	011	462766-0	012
Analysis Descented	Field Id:	SB-1 7	0'	SB-1 9	0'	SB-2 5	P	SB-2 10)'	SB-2 1	5'	SB-2 20	0'
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-07-13	15:00	May-07-13	15:10	May-08-13	10:20	May-08-13	10:25	May-08-13	10:30	May-08-13	10:35
Inorganic Anions by EPA 300/300.1	Extracted:	May-10-13	10:00			May-10-13	10:00	May-10-13	10:00	May-10-13	10:00	May-10-13	10:00
	Analyzed:	May-11-13	01:25			May-11-13	02:09	May-11-13	02:30	May-11-13	06:29	May-11-13	03:36
	Units/RL:	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		69.8	4.17			136	4.32	83.6	4.38	59.7	4.22	63.2	4.2
Percent Moisture	Extracted:												
	Analyzed:	May-09-13	15:00	May-09-13	15:00	May-09-13	15:00	May-09-13	15:00	May-09-13	15:20	May-09-13	15:20
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.19	1.00	13.7	1.00	7.46	1.00	8.61	1.00	5.30	1.00	5.03	1.0

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Kelsey Brooks Project Manager

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XENCO Laboratories						mary 4 Midland,		6			0)	
Project Id: 073824 Contact: Tom Larson Project Location: New Mexico		Proje	ct Name	e: CEMC	NM O	state #40	Dat		Date:	Thu May-09-1 16-MAY-13 Kelsey Brooks		am	
Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	462766-4 SB-2 4 SOIL May-08-13	0'	462766-0 SB-2 50 SOIL May-08-13	0'	462766-0 SB-2 70 SOIL May-08-13	0'	462766-0 SB-2 9 SOIL May-08-13	0'	462766-0 SB-3 5 SOIL May-08-13		462766-0 SB-3 10 SOIL May-08-13	0'
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	May-10-13 May-11-13 mg/kg 28.9		May-10-13 May-11-13 mg/kg 102		May-10-13 May-11-13 mg/kg 108				May-10-13 May-11-13 mg/kg 713		May-10-13 May-11-13 mg/kg 612	
Percent Moisture	Extracted: Analyzed: Units/RL:	May-09-13		May-09-13 %	1	May-09-13 %		May-09-13 %	16:00 RL	May-09-13	1	May-09-13 %	
Percent Moisture		6.27	1.00	5.82	1.00	4.37	1.00	5.04	1.00	2.17	1.00	5.71	1.00

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Kelsey Brooks Project Manager

Page 7 of 39

Final 1.000

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Project Id: 073824		Proje	ct Nam	e: CEMC	NM O	state #40							
Contact: Tom Larson							Da	te Received i	n Lab:	Thu May-09-	13 09:10	am	
roject Location: New Mexico								Report	t Date:	16-MAY-13			
oject Location. New Mexico								Project Ma	nager:	Kelsey Brook	s		
	Lab Id:	462766-	019	462766-0	020	462766-0	021	462766-	022	462766-0	023	462766-0	24
	Field Id:	SB-3 1	5'	SB-3 20	D'	SB-3 40	0'	SB-3 5	0'	SB-3 7	D'	SB-3 90)'
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-08-13	12:07	May-08-13	12:10	May-08-13	12:13	May-08-13	12:15	May-08-13	12:20	May-08-13	12:25
Inorganic Anions by EPA 300/300.1	Extracted:	May-10-13	May-10-13 10:00		0 May-10-13 10:00			May-10-13	10:00	May-10-13	10:00		10.00
	Analyzed:	May-11-13	06:51	May-11-13 07:12		May-11-13 09:23		May-11-13 10:06		May-11-13	10:28		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		914	21.3	912	21.0	423	10.6	105	4.22	29.8	4.19		
Percent Moisture	Extracted:							1211					
	Analyzed:	May-09-13	16:00	May-09-13	16:00	May-09-13	16:00	May-09-13	16:00	May-09-13	16:00	May-09-13	16:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.01	1.00	4.91	1.00	5.68	1.00	5.22	1.00	4.48	1.00	5.38	1.00

Certificate of Analysis Summary 462766 Conestoga Rovers & Associates, Midland, TX

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Kelsey Brooks Project Manager

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Conestoga Rovers & Associates, Midland, TX

Lab Sample Id: 462766-001 Date Collected: 05.07.13 14.30 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P Tech: AMB MB % Moisture: 6.51 Analyst: AMB Date Prep: 05.10.13 10.00 Basis: Dry Weight	
Tech: AMB Moisture: 6.51 Analyst: AMB Date Prep: 05.10.13 0.00 Seq Number: 913663 Parameter Cas Number Result RL Units Analysis Date FI	
Analyst: AMB Date Prep: 05.10.13 10.00 Basis: Dry Weight of the prep: Seq Number: 913663 Parameter Cas Number Result RL Units Analysis Date FI	
Seq Number: 913663 Parameter Cas Number Result RL Units Analysis Date FI	
Parameter Cas Number Result RL Units Analysis Date Fl	ight
	g Dil
Chloride 16887-00-6 2090 42.8 mg/kg 05.10.13 22.10	20

Analytical Method:	Percent Moi	sture							
Tech:	SHSM			% Moisture:					
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913378								
Parameter		Cas Number	Result	RL	1. A.M.	Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	6.51	1.00		%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-1 10'		Matri	x: Soil		1	Date Received: 05.	09.13 09.	10
Lab Sample Id:	462766-002		Date Collected: 05.07.13 14.35						
Analytical Metho	d: Inorganic A	nions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 7.8		
Analyst:	AMB		Date	Prep: 05.1	0.13 10.00		Basis: Dr	y Weight	
Seq Number:	913663					,			
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	2310	43.4		mg/kg	05.10.13 22.54		20
Analytical Method	d: Percent Moi	sture							

Analytical Method:	Percent Mois	ture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	et Weight	
Seq Number:	913378							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	7.80	1.00	%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-1 15'				Ι	Date Received: 05.	.09.13 09.1	0
Lab Sample Id:	462766-003		Date Collected	: 05.07.13 14.40				
Analytical Method	: Inorganic An	ions by EPA 300/.	300.1	- 1. C		Prep Method: E3	00P	
Tech:	AMB					% Moisture: 4.2	7	
Analyst:	AMB		Date P	rep: 05.10.13 10.00		Basis: Dr	y Weight	
Seq Number:	913663							
Parameter	2 990 ¹	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1330	20.9	mg/kg	05.10.13 23.15		10
Analytical Method	: Percent Mois	ture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	t Weight	
Seq Number:	913378							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	4.27	1.00	%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-1 20'		Matri	x: Soil		1	Date Received: 05.	09.13 09.1	0
Lab Sample Id:	462766-004		Date Collecte	d: 05.07.1	3 14.45				
Analytical Metho	d: Inorganic A	nions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB				* 20 U		% Moisture: 6		
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dry	Weight	
Seq Number:	913663								
Parameter		Cas Number	Result	RL	1.00	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1800	42.6		mg/kg	05.10.13 23.37		20
Analytical Metho	d: Percent Moi	isture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913378								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	6.00	1.00		%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sumple fut	-1 40' 2766-005		Matrix Date Collected	x: Soil	13 14 50	D	Date Received: 05.	.09.13 09.	10
Analytical Method: Tech: Analyst: Seq Number:		nions by EPA 300/3			05.10.13 10.00		Prep Method: E3 % Moisture: 5.5 Basis: Dry	2	
Parameter Chloride		Cas Number 16887-00-6	Result 1050	RL 21.3	2	Units mg/kg	Analysis Date 05.10.13 23.59	Flag	Dil 10

Analytical Method:	Percent Moi	sture						
Tech:	SHSM			% Moisture:				
Analyst:	WRU					Basis: We	et Weight	
Seq Number:	913378							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	5.52	1.00	%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-1 50'		Matri	x: Soil		1	Date Received: 05.09.13 09.10		
Lab Sample Id:	462766-006	I	Date Collected	d: 05.07.	13 14.55				
Analytical Method	: Inorganic A	nions by EPA 300/30	0.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 4.0	6	
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dr	y Weight	
Seq Number:	913663								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	127	4.17		mg/kg	05.11.13 00.20		2

Analytical Method:	Percent Mois								
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913378								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	4.06	1.00		%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id: SI	3-1 70'		Matrix	x: Soil	Ι	Date Received: 05	.09.13 09.	.10
Lab Sample Id: 46	2766-007		Date Collected	1: 05.07.13 15.00				
Analytical Method:	Inorganic A	nions by EPA 300/3	00.1			Prep Method: E3	00P	
Tech:	AMB					% Moisture: 4.1	9	
Analyst:	AMB		Date 1	Prep: 05.10.13	10.00	Basis: Dr	y Weight	
Seq Number:	913663							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	69.8	4.17	mg/kg	05.11.13 01.25		2
Analytical Method:	Percent Moi	sture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	et Weight	
Seq Number:	913378							

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.19	1.00	%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sumpro rui	SB-1 90' 462766-008			x: Soil d: 05.07.13 15.10	Ľ	Date Received: 05.	09.13 09.	10
Analytical Method	d: Percent Moi	sture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	t Weight	
Seq Number:	913378							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	13.7	1.00	%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id: SE	3-2 5'		Matrix: Soil]	Date Received: 05	.09.13 09.1	10		
	2766-009		Date Collected: 05.08.13 10.20						
Analytical Method: Tech:	AMB	nions by EPA 300/3	00.1		Prep Method: E300P % Moisture: 7.46				
Analyst: Seq Number:	AMB 913663		Date Prep: 05.10.13 1	0.00	Basis: Dry Weight				
Parameter	*	Cas Number	Result RL	Units	Analysis Date	Flag	Dil		
Chloride		16887-00-6	136 4.32	mg/kg	05.11.13 02.09		2		
Analytical Method:	Percent Moi	sture							
Tech:	SHSM				% Moisture:				
Analyst:	WRU				Basis: We	et Weight			
Seq Number:	913378								

		205					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	7.46	1.00	%	05.09.13 15.00		1



Seq Number:

913378

Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-2 10'		Matri	x: Soil		I	Date Received: 05.09.13 09.1		
Lab Sample Id:	462766-010		Date Collecte	d: 05.08.13 1	0.25				
Analytical Method	l: Inorganic A	nions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 8.6	1	
Analyst:	AMB		Date	Prep: 05.	10.13 10.00		Basis: Dr	Weight	
Seq Number:	913663								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	83.6	4.38		mg/kg	05.11.13 02.30		2
Analytical Method	l: Percent Moi	sture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	-
Percent Moisture	TMOIST	8.61	1.00	%	05.09.13 15.00		1	





Conestoga Rovers & Associates, Midland, TX

				1			10	1 3	1
Sample Id: SE	8-2 15'		Matri	ix: Soil		Γ	Date Received: 05.	.09.13 09.1	10
Lab Sample Id: 46	2766-011		Date Collecte	ed: 05.08.	13 10.30				
Analytical Method:	Inorganic Ani	ions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 5.3		
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dr	y Weight	
Seq Number:	913663								
Parameter	The second second	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	59.7	4.22		mg/kg	05.11.13 06.29		2
Analytical Method:	Percent Moist	ure							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913378								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	5.30	1.00		%	05.09.13 15.20		1





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-2 20'		Matri	x: Soil		I	Date Received: 05.	.09.13 09.	10
Lab Sample Id:	462766-012		Date Collected	d: 05.08.	13 10.35				
Analytical Method	d: Inorganic Ar	tions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 5.0	3	
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dr	y Weight	
Seq Number:	913663								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	63.2	4.21		mg/kg	05.11.13 03.36		2
Analytical Method	d: Percent Mois	sture							
Tech:	SHSM						% Moisture:		

Analyst:	WRU	Basis: Wet Weight
Seq Number:	913378	

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.03	1.00	%	05.09.13 15.20		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SE	3-2 40'		Matri	x: Soil	I	Date Received: 05	.09.13 09	.10
	2766-013		Date Collecte	d: 05.08.13 10.40				
Analytical Method:	Inorganic An	ions by EPA 300/3	00.1			Prep Method: E3	00P	
Tech:	AMB					% Moisture: 6.2	27	
Analyst:	AMB		Date	Prep: 05.10.13 10.0	00	Basis: Dr	y Weight	
Seq Number:	913663							
Parameter	Ex .	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	28.9	4.27	mg/kg	05.11.13 03.57		2
Analytical Method:	Percent Moist	ture						
Tech:	SHSM					% Moisture:		

Analyst:	WRU					t .		
Seq Number:	913378							
Parameter	deres to a local de la companya de la	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	6.27	1.00	%	05.09.13 15.20		1





Conestoga Rovers & Associates, Midland, TX

									1. X
Sample Id:	SB-2 50'		Matri	x: Soil]	Date Received: 05.	09.13 09.1	10
Lab Sample Id:	462766-014		Date Collecte	d: 05.08	.13 10.45				
Analytical Method	d: Inorganic A	nions by EPA 300/30	00.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 5.8	2	
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dr	Weight	
Seq Number:	913663								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	102	4.25	5	mg/kg	05.11.13 04.19		2
Analytical Method	d: Percent Moi	sture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913378								

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.82	1.00	%	05.09.13 15.20		1





Conestoga Rovers & Associates, Midland, TX

Sample Id: SI	3-2 70'		Matri	x: Soil		D	ate Received: 05.	.09.13 09	.10
Lab Sample Id: 46	2766-015		Date Collected	d: 05.08.13 1	0.50				
Analytical Method:	Inorganic An	ions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB					% Moisture: 4.37			
Analyst:	AMB		Date	Prep: 05.1	0.13 10.00	Basis: Dry Weight			
Seq Number:	913663								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	108	4.18		mg/kg	05.11.13 04.41		2

Analytical Method: Percent Moisture												
Tech:	Tech: SHSM						% Moisture:					
Analyst:	WRU						Basis: We	et Weight				
Seq Number:	913378											
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil			
Percent Moisture		TMOIST	4.37	1.00		%	05.09.13 15.20		1			





Conestoga Rovers & Associates, Midland, TX

Sample Id: Lab Sample Id:			x: Soil d: 05.08.13 11.05		Date Received: 05.09.13 09.1				
Analytical Metho	d: Percent Mo	isture							
Tech:	SHSM					% Moisture:			
Analyst:	WRU					Basis: We	et Weight		
Seq Number:	913386								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Percent Moisture		TMOIST	5.04	1.00	%	05.09.13 16.00		1	





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-3 5'		Matrix: Soil			Date Received: 05.09.13 09.10				
Lab Sample Id:	462766-017		Date Collected	1: 05.08	.13 12.00					
Analytical Method	: Inorganic A	nions by EPA 300/3	00.1				Prep Method: E3	00P		
Tech:	AMB						% Moisture: 2.1	7		
Analyst:	AMB		Date I	Prep:	05.10.13 10.00		Basis: Dr	Weigh	t	
Seq Number:	913663									
Parameter	46.	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	713	20.4	4	mg/kg	05.11.13 06.07		1	

Analytical Method:	Percent Mois	sture								
Tech:						% Moisture:				
Analyst:	WRU					Basis: We	et Weight			
Seq Number:	913386									
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Percent Moisture		TMOIST	2.17	1.00	%	05.09.13 16.00		1		





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-3 10'		Matri	x: Soil			Date Received: 05.	09.13 09.10	
Lab Sample Id:	462766-018		Date Collected: 05.08.13 12.05						
Analytical Metho	d: Inorganic	c Anions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 5.7	1	
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dr	y Weight	
Seq Number:	913663								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Di
Chloride		16887-00-6	612	10.6	5	mg/kg	05.11.13 02.52		5
Analytical Method	d: Percent N	Ioisture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	et Weight	
Seq Number:	913386								

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.71	1.00	%	05.09.13 16.00		1





Conestoga Rovers & Associates, Midland, TX

Sumpre sur	-3 15' 2766-019	Matrix: Soil	Date Received: 05.09.13 09.10
Analytical Method:	Inorganic Anions by EPA	Date Collected: 05.08.13 12.07	Prep Method: E300P
Tech:	AMB		% Moisture: 6.01
Analyst: Seq Number:	AMB 913663	Date Prep: 05.10.13 10.0	0 Basis: Dry Weight
Parameter	Cas Numl	Result RL	Units Analysis Date Flag Dil
Chloride	16887-00-	914 21.3	mg/kg 05.11.13 06.51 10

Analytical Method:	Analytical Method: Percent Moisture										
Tech: SHSM Analyst: WRU						% Moisture: Basis: Wet Weig					
Seq Number:	913386										
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil			
Percent Moisture		TMOIST	6.01	1.00	%	05.09.13 16.00		1			





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-3 20'		Matri	x: Soil		Ι	Date Received: 05.	09.13 09.	10	
Lab Sample Id:	462766-020		Date Collecte	d: 05.08.13 1	2.10					
Analytical Method	l: Inorganic A	nions by EPA 300/3	00.1			Prep Method: E300P				
Tech:	AMB					% Moisture: 4.91				
Analyst:	AMB		Date	Prep: 05.	10.13 10.00		Basis: Dr	y Weight		
Seq Number:	913663									
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	912	21.0		mg/kg	05.11.13 07.12		10	
Analytical Method	l: Percent Moi	sture								
Tech:	SHSM						% Moisture:			
Analyst:	WRU						Basis: We	t Weight		
Seq Number:	913386									

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.91	1.00	%	05.09.13 16.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id: SE	8-3 40'		Matri	x: Soil	I	Date Received: 05.	09.13 09.10	
Lab Sample Id: 46	2766-021		Date Collecte	d: 05.08.13 12.13				
Analytical Method:	Inorganic An	ions by EPA 300/3	00.1			Prep Method: E3	DOP	
Tech:	AMB					% Moisture: 5.6	8	
Analyst:	AMB		Date	Prep: 05.10.13 10	.00	Basis: Dry	Weight	
Seq Number:	913664							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	423	10.6	mg/kg	05.11.13 09.23		5
Analytical Method:	Percent Mois	sture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	t Weight	
Seq Number:	913386							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	5.68	1.00	%	05.09.13 16.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-3 50'		Matri	x: Soil		1	Date Received: 05.	09.13 09.10
Lab Sample Id: 4	462766-022		Date Collected	1: 05.08.1	3 12.15			
Analytical Method:	Inorganic A	nions by EPA 300/3	00.1				Prep Method: E3	00P
Tech:	AMB						% Moisture: 5.2	2
Analyst:	AMB		Date	Prep: (05.10.13 10.00		Basis: Dr	Weight
Seq Number:	913664							
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag Di
Chloride		16887-00-6	105	4.22		mg/kg	05.11.13 10.06	
Analytical Method:	Percent Moi	sture						
Tech:	SHSM						% Moisture:	
Analyst:	WRU						Basis: We	t Weight
Seq Number:	913386							

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.22	1.00	%	05.09.13 16.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id:	SB-3 70'		Matrix: Soil		Γ	Date Received: 05.	09.13 09.1	10
Lab Sample Id:	462766-023		Date Collected: 05.08.	.13 12.20				
Analytical Method	d: Inorganic Ar	ions by EPA 300/3	00.1			Prep Method: E3	00P	
Tech:	AMB					% Moisture: 4.4	8	
Analyst:	AMB		Date Prep:	05.10.13 10.00		Basis: Dry	Weight	
Seq Number:	913664							
Parameter		Cas Number	Result RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	29.8 4.19)	mg/kg	05.11.13 10.28		2
Analytical Method	d: Percent Mois	sture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	t Weight	
Seq Number:	913386							
Parameter	n the second	Cas Number	Result RL		Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	4.48 1.00		%	05.09.13 16.00		1





Conestoga Rovers & Associates, Midland, TX

Sumpre rat	B-3 90' 62766-024		ix: Soil ed: 05.08.13 12	.25	Γ	Date Received: 05.	09.13 09.1	10	
Analytical Method:	Percent Moisture								
Tech:	SHSM					% Moisture:			
Analyst:	WRU					Basis: We	et Weight		
Seq Number:	913386								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	_
Percent Moisture	TMOIST	5.38	1.00		%	05.09.13 16.00		1	



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.

LOD Limit of Detection

LOQ Limit of Quantitation

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit

PQL Practical Quantitation Limit MQL Method Quantitation Limit

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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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Final 1.000



QC Summary 462766



Conestoga Rovers & Associates

				CLIV		State II	10					
Analytical Method:	0	y EPA 300	/300.1		0.111			Pr	ep Meth			
Seq Number:	913663		LCSS	Matrix:		DVC		LCSI	Date Pr		0/2013	
MB Sample Id:	638042-1-BLK				638042-1						042-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<2.00	50.0	51.7	103	51.6	103	80-120	0	20	mg/kg	05/10/13 21:27	
Analytical Method:	-	y EPA 300	/300.1					Pr	ep Metho			
Seq Number:	913664		1.00.0	Matrix:		DVC		I COL	Date Pr	-	0/2013	
MB Sample Id:	638044-1-BLK				638044-1	-BKS					044-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<2.00	50.0	50.3	101	52.3	105	80-120	4	20	mg/kg	05/11/13 08:39	
Analytical Method:	Inorganic Anions b	y EPA 300	/300.1					Pr	ep Metho	od: E30	0P	
Seq Number:	913663			Matrix:	Soil				Date Pr		0/2013	
Parent Sample Id:	462766-001		MS Sat	nple Id:	462766-0	01 S						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec			Limits			Units	Analysis Date	Flag
Chloride	2090	1070	3410	123			80-120			mg/kg	05/10/13 22:32	х
Analytical Method:		y EPA 300	/300.1					Pr	ep Metho			
Seq Number:	913663		MOG	Matrix:		10.0			Date Pro	ep: 05/1	0/2013	
Parent Sample Id:	462766-018				462766-0	185				** •.		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec			Limits			Units	Analysis Date	Flag
Chloride	612	265	848	89			80-120			mg/kg	05/11/13 03:14	
Analytical Method:	Inorganic Anions b	y EPA 300	/300.1					Pr	ep Metho	od: E30	0P	
Seq Number:	913664			Matrix:	Soil				Date Pr		0/2013	
Parent Sample Id:	462766-021		MS Sar	nple Id:	462766-02	21 S						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec			Limits			Units	Analysis Date	Flag
Chloride	423	265	724	114			80-120			mg/kg	05/11/13 09:44	



QC Summary 462766

Analysis

Date

05/09/13 14:00

Analysis

Date

05/09/13 16:00

Flag

Flag

Units

%

Units

%

Conestoga Rovers & Associates CEMC NM Ostate #40

Analytical Method: Percent Moisture 913378 Seq Number:

Parameter

Percent Moisture

Analytical Method: Percent Moisture Seq Number: 913386

Parameter

Percent Moisture

Analytical Method:	Percent Moisture
Seq Number:	913378
Parent Sample Id:	462621-005
Parameter	Parent Result
Percent Moisture	11.1

Analytical Method:	Percent Moisture
Seq Number:	913386
Parent Sample Id:	462766-016
Parameter	Parent Result
Percent Moisture	5.04

Matrix: Solid MB Sample Id: 913378-1-BLK MB Result ND

Matrix: Solid MB Sample Id: 913386-1-BLK MB Result ND

Matrix: Soil MD Sample Id: 462621-005 D MD Result 10.6

%RPD RPD Units Analysis Flag Limit Date 20 % 05/09/13 14:00 5

Matrix: Soil MD Sample Id: 462766-016 D MD Result 4.87

%RPD	RPD Limit	Units	Analysis Date	Flag
3	20	%	05/09/13 16:00	

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Matrix Composite Composite Composite Call or P.O. Project ID Fax No: Fax No: Fax No: Container Size Container Type Preservatives VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides	All Matrix Composite Project ID Tax No: Project ID Fax No: Fax No: Fax No: Fax No: Project ID Fax No: Fax No: Fax No: Fax No: Project ID Fax No: Fax No: Fax No: Fax No: Project ID Fax No: Fax No: Fax No: Fax No: Project ID Fax No: Fax No: Fax No: Fax No: Project ID Fax No: Fax No: Fax No: Fax No: Project ID Fax No: Fax No: Fax No: Fax No: Project ID Fax No: Container Size Ocontainer Type Fax No: Preservatives VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 VOA: PP TCL DW Appdx-1 Appdx-2 CALL Oc Pesticides PCBs Herbicides OP Pesticides Pesticides OC Pesticides PCBs Herbicides OP Pesticides OC Pesticides PCBs Herbicides OP Pesticides Pesticides Metals: RCRA-3 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2 SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) FDB / DBCP	1) 5) 5) 5)	telinquished by (Initials and Sign) Date &	20' 5.8.13 12:10	151 1 12:07	[10! 12:05 pm	1	V 90' 1 11:05	DS.P/ 1, 02		40' 04:00	201 1 10:35	SB-2 15' 5.8.13 10:31 m	Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp QAPP Per-Contract CLP AGCEE NAVY DOE DOD Special DLs (GW DW QAPP MDLs RLs See Lab PM I Sampler Name MUE Sampler Name Sample ID Sample ID	Proj. State: TX, AL, FL, GA, LA, MS, NC, Proj. Manager (PM) NJ, PA, SC, TN, UT Other (W/hy) E-mail Results to E-mail Results to SPM and Local Contraction Character Id. com Invoice to Accounting Inc. Invoice with Final Report Bill to: SEE SCAL C. Lovig Ld. Bill to: SEE SCAL C. Lovig Ld. P.O. No: P.O. No: P.O. No:	ocation Previously
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Solid (S), Water (W), Liquid (L) Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

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Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Page 38 of 39

Final 1.000



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & Associates Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/09/2013 09:10:00 AM **Temperature Measuring device used :** Work Order #: 462766 Comments

Sample Receipt Checklist #1 *Temperature of cooler(s)? 5 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6 *Custody Seals Signed and dated? Yes #7 *Chain of Custody present? Yes #8 Sample instructions complete on Chain of Custody? Yes #9 Any missing/extra samples? No #10 Chain of Custody signed when relinquished/ received? Yes #11 Chain of Custody agrees with sample label(s)? Yes #12 Container label(s) legible and intact? Yes #13 Sample matrix/ properties agree with Chain of Custody? Yes #14 Samples in proper container/ bottle? Yes #15 Samples properly preserved? Yes #16 Sample container(s) intact? Yes #17 Sufficient sample amount for indicated test(s)? Yes #18 All samples received within hold time? Yes #19 Subcontract of sample(s)? Yes #20 VOC samples have zero headspace (less than 1/4 inch bubble)? Yes #21 <2 for all samples preserved with HNO3, HCL, H2SO4? Yes #22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by: Murshoah Kelsey Brooks Checklist reviewed by: Murshoah Kelsey Brooks

Date: 05/09/2013

Date: 05/09/2013