Form C-141

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 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

Revised October 10, 2003

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

#### **Release Notification and Corrective Action OPERATOR Initial Report** Final Report **COG Operating LLC** Name of Company Pat Ellis Contact 550 W. Texas, Suite 1300 Midland, Texas 79701 (432) 230-0077 Address Telephone No. LPC 31 Federal #2 Tank Battery Facility Name Facility Type **Tank Battery** Surface Owner: Federal Mineral Owner Lease No. (API#) 30-025-38157 Closest well location LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County G 31 185 32E Lea Latitude 32 42.376 Longitude 103 48.245 NATURE OF RELEASE Type of Release: Oil Volume of Release 12 bbls oil Volume Recovered 10 bbls Source of Release: Heater Treater Date and Hour of Occurrence Date and Hour of Discovery 09/06/2012 09/06/2012 4:00 p.m. Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☒ No ☒ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No N/A If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* The heater was not emptied completely prior to unbolting the fire tube for maintenance. When the fire tube was unbolted fluid was released. The drain line was clogged which did not allow for the emptying of all the fluids inside the heater. The drain line has been unclogged and the fire tube has been replaced. Describe Area Affected and Cleanup Action Taken.\* Tetra Tech personnel inspected the site and collected samples to define the spills extent. No soils exceeded the RRAL for BTEX or TPH. Tetra Tech prepared a closure report and submitted it to NMOCD for review. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Jocelyn Harimon Approved by District Supervisor: Printed Name: Ike Tavarez (agent fort COG) 06/27/2023 Approval Date: **Expiration Date:** Title: Project Manager E-mail Address: Ike. Tavarez@TetraTech.com Conditions of Approval: Attached None

Attach Additional Sheets If Necessary

Phone: (432) 682-4559

<u>District I</u> 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

Release Notification and Corrective Action

PJXK1601132001 Form C-141 Revised October 10, 2003

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

	<b>OPERATOR</b>	$\boxtimes$	Initial Report	Final Repor
Name of Company COG OPERATING LLC	Contact	Pat Ellis		
Address 550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077		
Facility Name LPC 31 Federal #2 Tank Battery	Facility Type	Tank Battery		

Mineral Owner Lease No. (API#) 30-025-38157 Surface Owner Federal Closest well location

				LUCA		OF RE	LEASE			
Unit Letter G	Section 31	Township 18S	Range 32E	Feet from the	North/S	South Line	Feet from the	East/Wes	st Line	County Lea
				Latitude 32 4			ide 103 48.245			
				NAT	URE	OF REL				
Type of Rele	ase Oil						Release 12bbls			Recovered 10bbls
Source of Re						09/06/2012				Hour of Discovery 2 4:00 p.m.
Was Immedi	ate Notice (		Yes 🗵	No 🛭 Not Re	equired	If YES, To				
By Whom?						Date and H				
Was a Water	course Read					If YES, Vo	olume Impacting t	he Waterco	ourse.	
			Yes 🗵							
If a Watercon	irse was Im	pacted, Descr	ibe Fully.	k						
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*						
										aid was released. The drain line fire tube has been replaced.
Describe Are	a Affected	and Cleanup	Action Tal	cen.*						
vacuum trucl surface has b remediation	t. The spill een remove work plan to	area measure d. Tetra Tech o the NMOCI	s approxir will samp D/BLM for	nately a 7' x 15' a le the spill site are approval prior to	rea arous ea to deli any sign	nd the heater neate any po ificant reme	. All free fluids he ssible contaminat diation work.	ave been re ion from th	ecovered he release	cover 10bbls of fluid with a contaminated soil at the e and we will present a
regulations a public health should their or the enviro	or the envi operations h ment. In a	are required to ronment. The ave failed to	e acceptant adequately OCD accep	nd/or file certain rece of a C-141 report investigate and re	elease no ort by the emediate	NMOCD m	nd perform correct arked as "Final Ro on that pose a thre	tive actions eport" does eat to groun	s for rele s not relie nd water.	uant to NMOCD rules and cases which may endanger eve the operator of liability , surface water, human health ompliance with any other
Signature:	//	20	3				OIL CONS	SERVA'	TION	DIVISION
Printed Name	7	Josh	Russo		A	Approved by	District Supervise	or:		
Title:		HSE C	oordinato		A	Approval Dat	e:	Exp	piration I	Date:
E-mail Addre	ess: 09/17/201	jrusso@cond		es.com 432-212-2399		Conditions of	Approval:			Attached
Date.	37111201		ione.	100 010 0077					-	

Attach Additional Sheets If Necessary

		SITE	INFORMATIO	N	NOV 02 2012		
		Report Ty	ype: Closure	Report	NOV		
General Site In	nformation:				2 2012		
Site:		LPC 31 Federal	#2 Tank Battery	ALL STATE			
Company:		COG Operating			RECEIVED		
	ship and Range		ec 31 T18S	R32E			
Lease Number	r:	API-30-015-3136	66				
County:		Lea County					
GPS:		32.70670° N		103.8042	9° W		
Surface Owne		Federal			and the charles of the particular of		
Directions:		miles. Turn right (	west) and travel for 0.7	miles on a clich	uth on CR 126A approximatly 5.8 te road. Follow the road turning to the ravel for 0.1 miles to site.		
Release Data:		9/6/2012					
Type Release:		Oil					
Source of Cont	amination:	Heater Treater					
Fluid Released			12 bbls oil				
Fluids Recover		10 bbls oil	10 bbls oil				
Official Comm	unication:						
Name:	Pat Ellis	进一件 法允许		Ike Tavare	ez		
Company:	COG Operating, L	LC		Tetra Tech	า		
Address:	550 W. Texas Ave			1910 N. B	ig Spring		
P.O. Box					× ×		
City:	Midland Texas, 79	701	UNIVERSE TO SECOND		exas		
				(432) 682-			
Phone number.							
Phone number. Fax:	(432) 684-7137						

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
	w <sup>4</sup>	
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	Transfer of the second
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Control of the contro	The second secon	
Total Ranking Score:	0	



October 23, 2012

Mr. Geoffrey Leking Environmental Engineer Specialist Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Closure Report for the COG Operating LLC., LPC 31 Federal #2 Tank Battery, Located Unit G, Section 31, Township 18 South, Range 32 East, Lea County, New Mexico.

Mr. Leking:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from LPC 31 Federal #2 Tank Battery, Located Unit G, Section 31, Township 18 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 31.70670°, W 103.80429°. The site location is shown on Figures 1 and 2.

#### Background

According to the State of New Mexico Oil Conservation Division (NMOCD) Form C-141 Initial Report, the leak was discovered on September 6, 2012. COG was performing maintenance on a heater treater and the release occurred during the disassembly of the fire tube, due to a clogged drain line inside the heater the Approximately twelve (12) barrels of oil were released and recovered approximately (10) barrels of fluid using a vacuum truck. COG repaired the clogged drain line prior to reassembly of the heater treater. The spill impacted an area on the pad around the heater treater, which measured approximately 20' x 55'. The spill areas are shown on Figures 3. The initial Form C-141 is enclosed in Appendix A.

### Groundwater

No water wells records were found in Section 31. According to the NMOCD groundwater map, the average depth to groundwater is approximately 200' below surface. The average depth to groundwater map is shown in Appendix B.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946



### Regulatory

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

### Soil Assessment and Analytical Results

On October 4, 2012, Tetra Tech personnel inspected and sampled the spill area. A total of two (2) auger holes (AH-1 and AH-2) were installed using a stainless steel hand auger to assess the impacted areas. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all of the auger hole samples were below the RRAL for TPH and BTEX. The chloride concentrations detected did not show an impact to the soils, with concentrations ranging from <20 mg/kg to 94.5 mg/kg.

#### Conclusion

Based on the results, no corrective action is required for the spill area and COG requests closure for this site. The C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

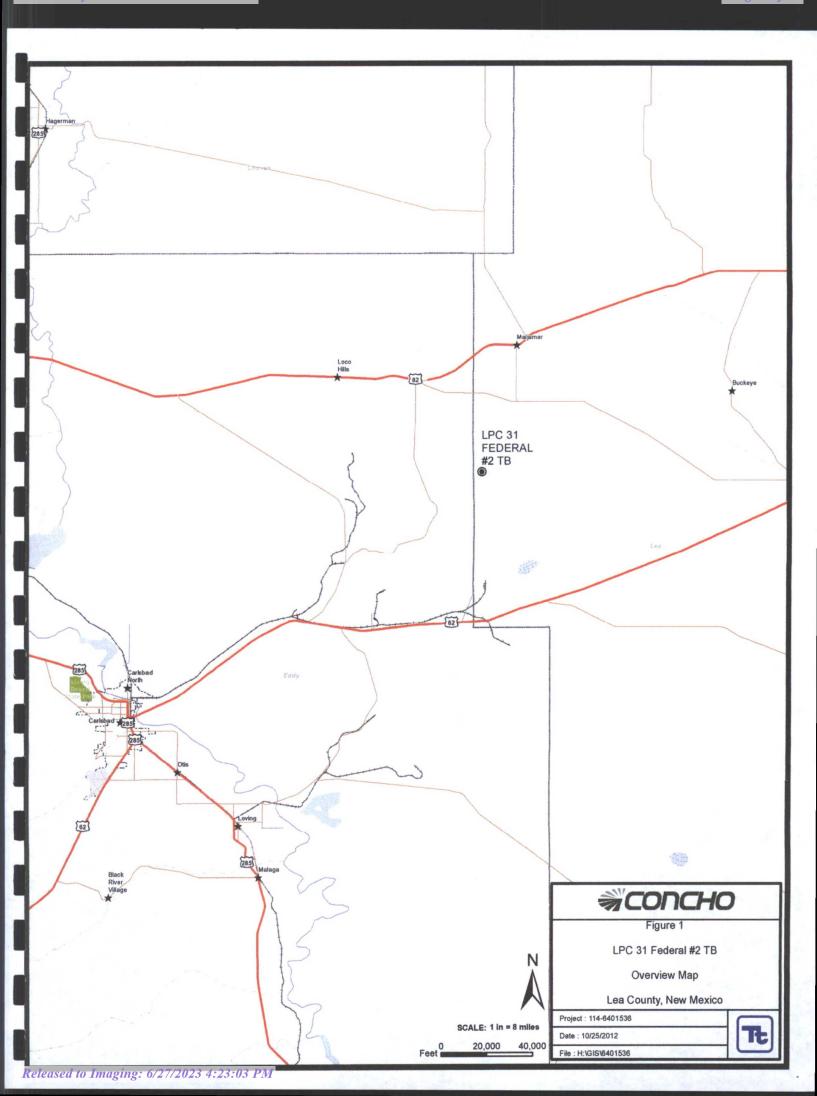
Respectfully submitted,

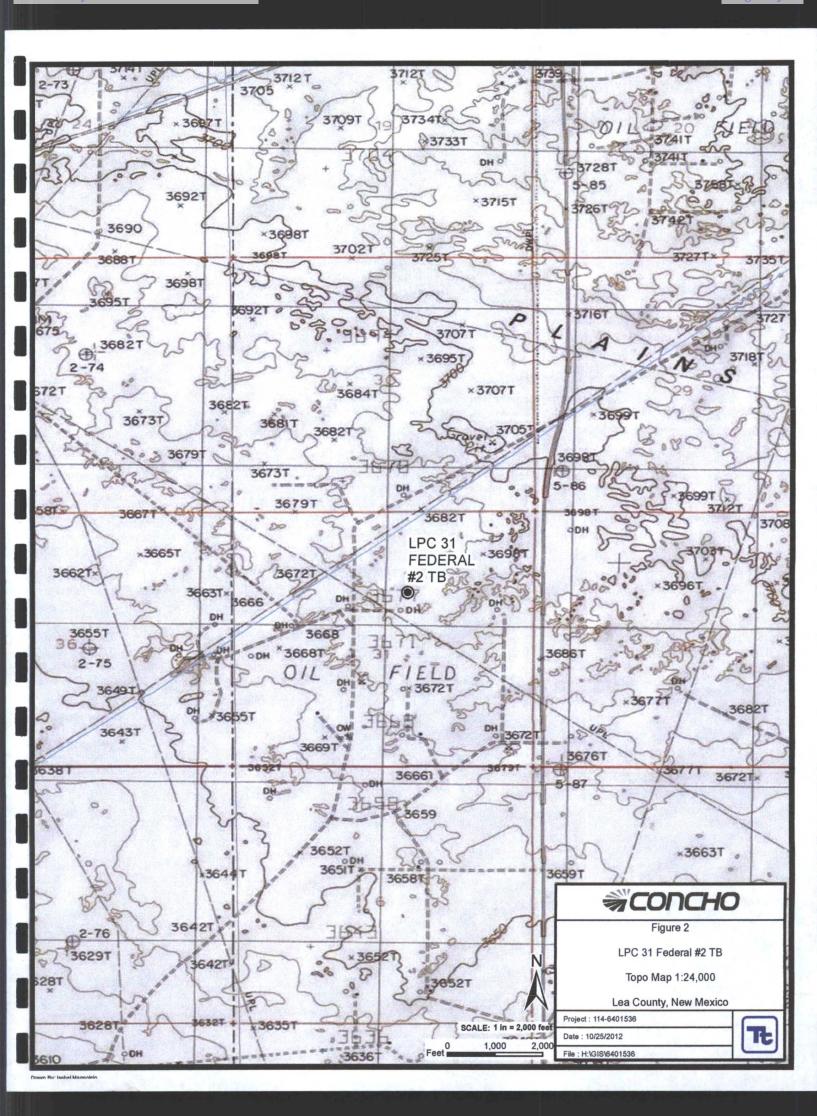
TETRA TECH

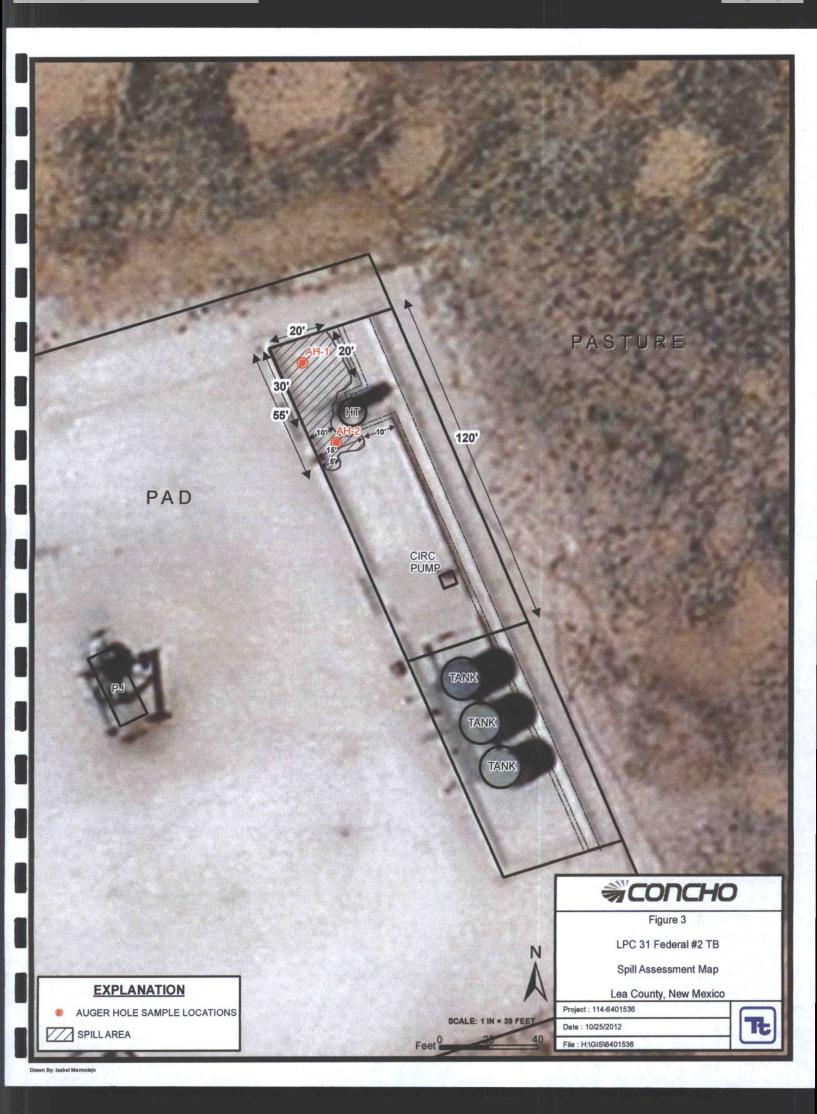
Ike Tavarez

Senior Project Manager

2







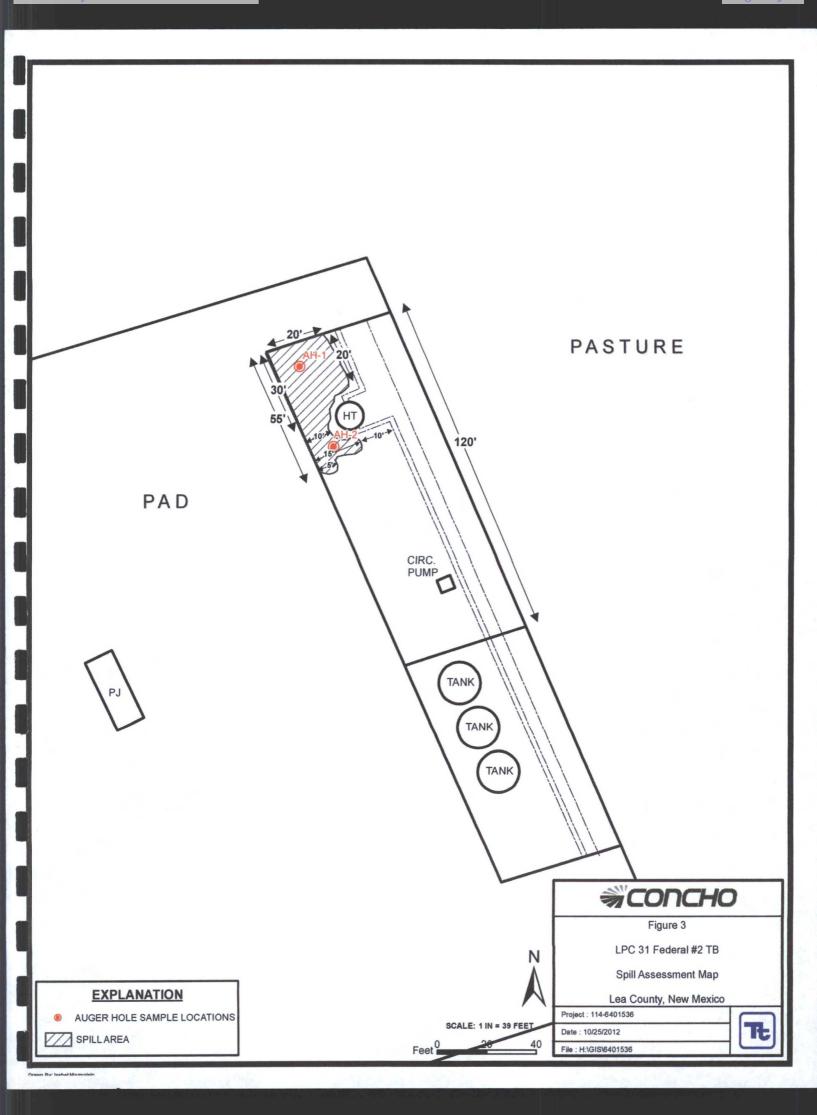


Table 1
COG Operating LLC.
LPC 31 Federal #2 Tank Battery
Lea County, New Mexico

	Sample	Sample	Soil	Soil Status		TPH (mg/kg)	1)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
O	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	10/4/2012	0-1	×		<1.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<20.0
	=	1-1.5	X		-	1	ı	,	,	1			<20.0
	=	2-2.5	×		1	1	,	,		1	,	1	<20.0
	=	3-3.5	×		-	1	,	,		1	1	-	<20.0
	=	4-4.5	X		,	1	,		,	,	,		<20.0
		5-2.5	×		,	-	,			1	,		<20.0
		6-6.5	X		,	-	,			1	,		<20.0
	ш	7-7.5	×		1	1	,	,		1	1	1	<20.0
	=	8-8.5	×		,	1	,	-	,	1	-	-	74.6
AH-2	10/4/2012	0-1	×		<1.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<20.0
	=	1-1.5	×		1	1		,	-	1	-	1	<20.0
	=	2-2.5	×		,	'	,	-		-		1	<20.0
	=	3-3.5	×		,	,		-	-		1		94.5
	=	4-4.5	×		1	-	,			1			<20.0
	=	5-2.5	×		,	,				-			<20.0
	=	6-6.5	×			'	,		-	1	,		<20.0
	=	7-7.5	×				ı		-	-	-	1	<20.0
	=	7.5-8	×		-		1						<20.0

(-) Not Analyzed

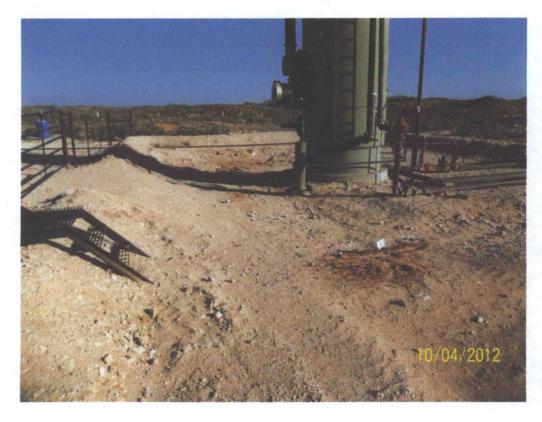
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# **COG Operating LLC** LPC 31 Federal #2 Tank Battery Lea County, New Mexico





View East - Area of AH-1



View West - Area of AH-2

# Water Well Data Average Depth to Groundwater (ft) COG - LPC 31 Federal #2 Tank Battery Lea County, New Mexico

	17	South	3	1 East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 SITE	23	24
30	29	28	27	26	25
31	32	33	34 <b>271</b>	35	36 SITE
	18	South	3	1 East	
6	5	4	3	2	1
7	8	9	10	11	12

	18	South	;		
6	5	4	3	2	1
7	8	9	10	11	12 400
18	17	16	15	14 317	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 <b>261</b>	36

	19 8	outh	;	31 East	
6	5 SITE	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 101	34	35	36 130

	17	South	3	2 East	
6	5	4 82 Maljam	3 a175	2 60	1 225
7	8	9	10	11 70 88	12 120
18	17	16	15	14	13
19	20	21 SITE	22	23	24
30 180 dry	29	28	27	26	25
31 Brown	32	33	34	35	36

	18 9	South	32	East	
6	5	4 65	3 Prong #2	2	1
7 460 32	8	9	10	11	12
18	17	16 <b>84</b>	15	14	13
19	20 164	21	22 429	23	24
30	29	28	27	26	25
31 Site	32	33	34 117	35	36

	19 5	South	3	2 East	
6	5	4	3	2	1
7	8 365	9	10	11	12
18	17	16	15	14	13 135 dry
19 102	20 345	21	22	23	24
30	29	28	27	26	25
31	32	33	34 250	35	36

	17 Sc	outh	33	East	
6 90	5	4	3 155	2 158	1 150
7 167	8 173	9 1 <b>61</b>	10	11	12
18 188	17 180	16	15	14	13 165
19	20 190	21	22	23 115	24
30 69	29 60	28	27	26	25
31	32	33 120	34	35 155	36

	18 Sc	outh	33	East	
6	5	4	3 <b>60</b>	2	1
7	8 100		10	11 16	12 <b>143 140</b>
18	17 <b>85</b>	16	15	14 36	13 60
19 >140	20	21	22	23	24 195
30 35	29	28	27	26	25
31	32	33 177	34	35	36

	19 9	South	;	33 East	
6	5	4	3	2	1
7	8	9	10	11	12
18 <b>340</b>	17 116	16	15	14	13
19	20	21	22	23	24
30	29	28 130 dry	27	26 <b>92</b> <b>85</b>	25
31	32 185	33	34	35	36

<b>New Mexico</b>	State	Engineers	Well	Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Field water level

New Mexico Water and Infrastructure Data System

Work Order: 12100516

Page Number: 1 of 4

## **Summary Report**

Ike Tavarez Tetra Tech

1910 N. Big Spring Street

Midland, TX 79705

Report Date: October 10, 2012

Work Order: 12100516

Project Location: Lea Co., NM

Project Name: COG/LPC 31 Fed. #2 TB

Project Number: 114-6401536

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
310952	AH-1 0-1'	soil	2012-10-04	00:00	2012-10-05
310953	AH-1 1-1.5'	soil	2012-10-04	00:00	2012-10-05
310954	AH-1 2-2.5'	soil	2012-10-04	00:00	2012-10-05
310955	AH-1 3-3.5'	soil	2012-10-04	00:00	2012-10-05
310956	AH-1 4-4.5'	soil	2012-10-04	00:00	2012-10-05
310957	AH-1 5-5.5'	soil	2012-10-04	00:00	2012-10-05
310958	AH-1 6-6.5'	soil	2012-10-04	00:00	2012-10-05
310959	AH-1 7-7.5'	soil	2012-10-04	00:00	2012-10-05
310960	AH-1 8-8.5'	soil	2012-10-04	00:00	2012-10-05
310961	AH-2 0-1'	soil	2012-10-04	00:00	2012-10-05
310962	AH-2 1-1.5'	soil	2012-10-04	00:00	2012-10-05
310963	AH-2 2-2.5'	soil	2012-10-04	00:00	2012-10-05
310964	AH-2 3-3.5'	soil	2012-10-04	00:00	2012-10-05
310965	AH-2 4-4.5'	soil	2012-10-04	00:00	2012-10-05
310966	AH-2 5-5.5'	soil	2012-10-04	00:00	2012-10-05
310967	AH-2 6-6.5'	soil	2012-10-04	00:00	2012-10-05
310968	AH-2 7-7.5'	soil	2012-10-04	00:00	2012-10-05
310969	AH-2 7.5-8'	soil	2012-10-04	00:00	2012-10-05

	BTEX			TPH DRO - NEW	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
310952 - AH-1 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<1.00
310961 - AH-2 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 1.00

Sample: 310952 - AH-1 0-1'

•

Report Date: October 10, 2012		Work Order: 12100516	Page 1	Page Number: 2 of 4	
Param	Flag	Result	Units	RL	
Chloride		<20.0	mg/Kg	4	
Sample: 310953 - A	AH-1 1-1.5'				
Param	Flag	Result	Units	RL	
Chloride		<20.0	mg/Kg	4	
Sample: 310954 - A	AH-1 2-2.5'				
Param	Flag	Result	Units	RL	
Chloride		<20.0	mg/Kg	4	
Sample: 310955 - A	AH-1 3-3.5'				
Param	Flag	Result	Units	RL	
Chloride		< 20.0	mg/Kg	4	
Sample: 310956 - A Param Chloride	AH-1 4-4.5' Flag	Result <20.0	Units mg/Kg	RL 4	
			01 0	4	
Sample: 310957 - A	AH-1 5-5.5'		<i>J</i> , <i>J</i>	4	
		Result	Units	RL	
Param	AH-1 5-5.5' Flag	Result <20.0			
Param Chloride	Flag		Units	RL	
Param Chloride Sample: 310958 - A	Flag AH-1 6-6.5'	<20.0	Units	RL 4	
Param Chloride Sample: 310958 - A	Flag		Units mg/Kg	RL	
Sample: 310957 - A Param Chloride  Sample: 310958 - A Param Chloride  Sample: 310959 - A	Flag  AH-1 6-6.5'  Flag	<20.0 Result	Units mg/Kg Units	RL 4	
Param Chloride  Sample: 310958 - A  Param Chloride	Flag  AH-1 6-6.5'  Flag	<20.0 Result	Units mg/Kg Units	RL 4	

Released to Imaging: 6/27/2023 4:23:03 PM

Report Date: October 10, 2012		Work Order: 12100516	Pag	Page Number: 3 of 4	
Sample: 310960	- AH-1 8-8.5'				
Param	Flag	Result	Units	RI	
Chloride	6	74.6	mg/Kg	4	
Sample: 310961	- AH-2 0-1'				
Param	Flag	Result	Units	RI	
Chloride		<20.0	mg/Kg	4	
Sample: 310962	- AH-2 1-1.5'				
Param	Flag	Result	Units	RI	
Chloride		<20.0	mg/Kg	4	
Sample: 310963					
Param	Flag	Result	Units	RI	
Chloride		<20.0	mg/Kg	4	
Sample: 310964 -	· AH-2 3-3.5'				
Param	Flag	Result	Units	RI	
Chloride		94.5	mg/Kg	4	
Sample: 310965 -	AH-2 4-4.5'				
Param	Flag	Result	Units	RL	
Chloride		<20.0	mg/Kg	4	
Sample: 310966 -	AH-2 5-5.5'				
Param	Flag	Result	Units	RL	
Chloride		<20.0	mg/Kg	4	
Sample: 310967 -	AH-2 6-6.5'				
<b>Sample: 310967 -</b> Param	AH-2 6-6.5'	Result	Units	RL	

Work Order: 12100516

Page Number: 4 of 4

Sample: 310968 - AH-2 7-7.5'

Param	Flag	Result	Units	RL
Chloride		< 20.0	mg/Kg	4

Sample: 310969 - AH-2 7.5-8'

Param	Flag	Result	Units	RL
Chloride		< 20.0	mg/Kg	4



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. Midland, Carroliton.

Texas 79922 Texas 79703 Texas 75006

800-378-1296

915-585-3443 432-689-6301

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

972-242-7750

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

### Certifications

HUB NCTRCA DBENELAP Dod LELAP Oklahoma ISO 17025 Kansas

### Analytical and Quality Control Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street Midland, TX, 79705

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Report Date: October 10, 2012

Work Order: 12100516 AND SOME SOME HAVE SOME SOME SOME SOME SOME SOME

Project Location: Lea Co., NM

Project Name:

COG/LPC 31 Fed. #2 TB

Project Number:

114-6401536

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

			Date	$\operatorname{Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
310952	AH-1 0-1'	soil	2012-10-04	00:00	2012-10-05
310953	AH-1 1-1.5'	soil	2012-10-04	00:00	2012-10-05
310954	AH-1 2-2.5'	soil	2012-10-04	00:00	2012-10-05
310955	AH-1 3-3.5'	soil	2012-10-04	00:00	2012-10-05
310956	AH-1 4-4.5'	soil	2012-10-04	00:00	2012-10-05
310957	AH-1 5-5.5'	soil	2012-10-04	00:00	2012-10-05
310958	AH-1 6-6.5'	soil	2012-10-04	00:00	2012-10-05
310959	AH-1 7-7.5'	soil	2012-10-04	00:00	2012-10-05
310960	AH-1 8-8.5'	soil	2012-10-04	00:00	2012-10-05
310961	AH-2 0-1'	soil	2012-10-04	00:00	2012-10-05
310962	AH-2 1-1.5'	soil	2012-10-04	00:00	2012-10-05
310963	AH-2 2-2.5'	soil	2012-10-04	00:00	2012-10-05
310964	AH-2 3-3.5'	soil	2012-10-04	00:00	2012-10-05
310965	AH-2 4-4.5'	soil	2012-10-04	00:00	2012-10-05
310966	AH-2 5-5.5'	soil	2012-10-04	00:00	2012-10-05
310967	AH-2 6-6.5'	soil	2012-10-04	00:00	2012-10-05
310968	AH-2 7-7.5'	soil	2012-10-04	00:00	2012-10-05
310969	AH-2 7.5-8'	soil	2012-10-04	00:00	2012-10-05

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 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

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

# Report Contents

Case Narrative		5
Analytical Report		6
		6
Sample 310958 (AH-1 6-6.5') .		
O		9
		9
-		
- ;		
Sample 310969 (AH-2 7.5-8') .		
Method Blanks		14
	k (1)	
QC Batch 95521 - Method Blank	k (1)	14
QC Batch 95521 - Method Blanl QC Batch 95522 - Method Blanl	κ (1)	
QC Batch 95521 - Method Blanl QC Batch 95522 - Method Blanl QC Batch 95569 - Method Blanl	x (1)	
QC Batch 95521 - Method Blanl QC Batch 95522 - Method Blanl QC Batch 95569 - Method Blanl	κ (1)	
QC Batch 95521 - Method Blanl QC Batch 95522 - Method Blanl QC Batch 95569 - Method Blanl QC Batch 95570 - Method Blanl	x (1)	
QC Batch 95521 - Method Blanl QC Batch 95522 - Method Blanl QC Batch 95569 - Method Blanl QC Batch 95570 - Method Blanl Laboratory Control Spikes	x (1)	
QC Batch 95521 - Method Blanl QC Batch 95522 - Method Blanl QC Batch 95569 - Method Blanl QC Batch 95570 - Method Blanl Laboratory Control Spikes QC Batch 95513 - LCS (1)	x (1)	
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1)	x (1)	
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1)	x (1)	
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95571 - MS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1) QC Batch 95522 - MS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1) QC Batch 95522 - MS (1) QC Batch 95569 - MS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1) QC Batch 95522 - MS (1) QC Batch 95569 - MS (1) QC Batch 95569 - MS (1) QC Batch 95570 - MS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1) QC Batch 95522 - MS (1) QC Batch 95520 - MS (1) QC Batch 95570 - MS (1) QC Batch 95570 - MS (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1) QC Batch 95522 - MS (1) QC Batch 95520 - MS (1) QC Batch 95570 - MS (1) QC Batch 95570 - MS (1)  Calibration Standards QC Batch 95513 - CCV (1)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1) QC Batch 95522 - MS (1) QC Batch 95569 - MS (1) QC Batch 95570 - MS (1) QC Batch 95570 - MS (1)  Calibration Standards QC Batch 95513 - CCV (1) QC Batch 95513 - CCV (2)		
QC Batch 95521 - Method Bland QC Batch 95522 - Method Bland QC Batch 95569 - Method Bland QC Batch 95570 - Method Bland QC Batch 95570 - Method Bland  Laboratory Control Spikes QC Batch 95513 - LCS (1) QC Batch 95521 - LCS (1) QC Batch 95522 - LCS (1) QC Batch 95569 - LCS (1) QC Batch 95570 - LCS (1) QC Batch 95513 - MS (1) QC Batch 95521 - MS (1) QC Batch 95522 - MS (1) QC Batch 95569 - MS (1) QC Batch 95569 - MS (1) QC Batch 95570 - MS (1)  Calibration Standards QC Batch 95513 - CCV (1) QC Batch 95513 - CCV (2) QC Batch 95513 - CCV (3)		

QC Batch 95521 - CCV (2)	 22
QC Batch 95521 - CCV (3)	 22
QC Batch 95522 - CCV (1)	 22
QC Batch 95522 - CCV (2)	 22
QC Batch 95522 - CCV (3)	 23
QC Batch 95522 - CCV (4)	 23
QC Batch 95569 - CCV (1)	 23
QC Batch 95569 - CCV (2)	 23
QC Batch 95570 - CCV (1)	 24
QC Batch 95570 - CCV (2)	 24
Appendix	25
Report Definitions	 25
Laboratory Certifications	 25
Standard Flags	 25
Attachments	25

### Case Narrative

Samples for project COG/LPC 31 Fed. #2 TB were received by TraceAnalysis, Inc. on 2012-10-05 and assigned to work order 12100516. Samples for work order 12100516 were received intact at a temperature of 3.8 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	80935	2012-10-06 at 09:45	95513	2012-10-06 at 09:45
Chloride (Titration)	SM 4500-Cl B	80964	2012-10-08 at 18:14	95569	2012-10-09 at 22:22
Chloride (Titration)	SM 4500-Cl B	80964	2012-10-08 at 18:14	95570	2012-10-09 at 22:23
TPH DRO - NEW	S 8015 D	80944	2012-10-05 at 10:00	95522	2012-10-08 at 10:56
TPH GRO	S 8015 D	80935	2012-10-06 at 09:45	95521	2012-10-06 at 09:45

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 12100516 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: October 10, 2012 114-6401536 Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 6 of 25

Lea Co., NM

# **Analytical Report**

Sample: 310952 - AH-1 0-1'

Laboratory: Midland

Analysis: BTEX QC Batch: 95513 Prep Batch: 80935 Analytical Method: S 8021B Date Analyzed: 2012-10-06 Sample Preparation: 2012-10-06

Prep Method: S 5035 Analyzed By: YG Prepared By: YG

RL Parameter Flag Cert Result Units Dilution RLBenzene < 0.0200 mg/Kg 0.0200 U 1 Toluene mg/Kg 1 0.0200U < 0.0200 Ethylbenzene < 0.0200 mg/Kg 1 0.0200 U **Xylene** < 0.0200 mg/Kg 1 0.0200U

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.74	mg/Kg	1	2.00	87	70 - 130
4-Bromofluorobenzene (4-BFB)			1.72	mg/Kg	1	2.00	86	70 - 130

Sample: 310952 - AH-1 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 95569 Prep Batch: 80964 Analytical Method: SM 4500-Cl B Date Analyzed: 2012-10-09 Sample Preparation: 2012-10-08

Prep Method: N/A Analyzed By: AR Prepared By: AR

Sample: 310952 - AH-1 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW QC Batch: 95522 Prep Batch: 80944 Analytical Method: S 8015 D
Date Analyzed: 2012-10-08
Sample Preparation: 2012-10-05

Prep Method: N/A Analyzed By: CW Prepared By: CW

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 7 of 25

Lea Co., NM

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			114	mg/Kg	1	100	114	70 - 130

Sample: 310952 - AH-1 0-1'

Laboratory:

Midland

Analysis:

 $\overline{\text{GRO}}$ 

TPH GRO

QC Batch: Prep Batch:

95521

Analytical Method:

S 8015 D

Prep Method: S 5035

YG

YG

80935

Date Analyzed: Sample Preparation: 2012-10-06

1

2012-10-06

Analyzed By: Prepared By:

Cert Parameter Flag

U

RLResult

<1.00

Units Dilution

mg/Kg

RL

1.00

AR

Spike Percent Recovery Units Dilution Amount Recovery Flag Cert Result Limits Surrogate Trifluorotoluene (TFT) 2.11 mg/Kg 1 2.00 106 70 - 130 4-Bromofluorobenzene (4-BFB) 1.78 mg/Kg 1 2.00 89 70 - 130

Sample: 310953 - AH-1 1-1.5'

Laboratory:

Prep Batch:

Midland

80964

Analysis: QC Batch: Chloride (Titration) 95569

Analytical Method: Date Analyzed: Sample Preparation: SM 4500-Cl B 2012-10-09

2012-10-08

Prep Method: N/A AR Analyzed By:

Prepared By:

RLCert Parameter Flag Result Units Dilution RLChloride < 20.0 mg/Kg 5 4.00 U

Sample: 310954 - AH-1 2-2.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B

Prep Method: N/A Analyzed By: AR

QC Batch: 95569 Prep Batch: 80964

Sample Preparation:

2012-10-09 2012-10-08

Prepared By: AR

 $continued \dots$ 

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 8 of 25 Lea Co., NM

sample 310954 continued ...

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 20.0	mg/Kg	5	4.00

### Sample: 310955 - AH-1 3-3.5'

80964

Laboratory:

Prep Batch:

Midland

Analysis: Chloride (Titration) QC Batch: 95569 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09 2012-10-08 Prep Method: N/A Analyzed By: AR Prepared By: AR

### Sample: 310956 - AH-1 4-4.5'

Laboratory:

Prep Batch:

Midland

Analysis: Chloride (Titration) QC Batch: 95569

95569 80964 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09 2012-10-08 Prep Method: N/A Analyzed By: AR Prepared By: AR

### Sample: 310957 - AH-1 5-5.5'

Laboratory:

Midland

Analysis: Chlori QC Batch: 95569

Chloride (Titration)

QC Batch: 95569 Prep Batch: 80964 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09 2012-10-08 Prep Method: N/A Analyzed By: AR

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 9 of 25

Lea Co., NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 20.0	mg/Kg	5	4.00

Sample: 310958 - AH-1 6-6.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 95569 Prep Batch: 80964

Analytical Method:

SM 4500-Cl B Date Analyzed: 2012-10-09 Sample Preparation: 2012-10-08

Prep Method: N/A Analyzed By: AR

AR

Prepared By:

RLFlag Parameter Cert Result Units Dilution RL< 20.0 Chloride mg/Kg 5 4.00

Sample: 310959 - AH-1 7-7.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 95569 Prep Batch: 80964 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09 2012-10-08

Prep Method: N/A Analyzed By: AR Prepared By: AR

RL Flag Result Units Dilution RLParameter Cert Chloride <20.0 mg/Kg 5 4.00 U

Sample: 310960 - AH-1 8-8.5'

Laboratory:

Midland

Analysis: QC Batch: Chloride (Titration)

95570 80964 Prep Batch:

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09 2012-10-08

Prep Method: N/A Analyzed By: AR

Prepared By: AR

RL Parameter Flag Cert Result Units Dilution RLChloride 74.6 mg/Kg 5 4.00

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 10 of 25

Lea Co., NM

Sample: 310961 - AH-2 0-1'

Laboratory: Analysis:

QC Batch:

Midland BTEX 95513 80935 Prep Batch:

Analytical Method: Date Analyzed:

S 8021B 2012-10-06 Sample Preparation: 2012-10-06

Prep Method: S 5035 YG

Analyzed By: Prepared By: YG

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	1	< 0.0200	mg/Kg	1	0.0200
Toluene	U	1	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	< 0.0200	mg/Kg	1	0.0200
Xylene	U	1	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.73	mg/Kg	1	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			1.62	mg/Kg	1	2.00	81	70 - 130

Sample: 310961 - AH-2 0-1'

Laboratory:

Midland

Analysis: QC Batch:

Prep Batch:

Chloride (Titration)

95570 80964 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09 2012-10-08

Prep Method: N/A

AR Analyzed By: Prepared By: AR

RLDilution Flag Cert Result Units RLParameter Chloride <20.0 mg/Kg 5 4.00 U

Sample: 310961 - AH-2 0-1'

Laboratory:

Midland

Analysis: QC Batch: TPH DRO - NEW

95522 Prep Batch: 80944

Analytical Method: Date Analyzed:

S 8015 D 2012-10-08 2012-10-05 Prep Method: N/A CW Analyzed By: Prepared By: CW

RLDilution Flag Cert RLParameter Result Units  $\overline{\mathrm{DRO}}$ < 50.0 mg/Kg 50.0 1

Sample Preparation:

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			106	mg/Kg	1	100	106	70 - 130

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 11 of 25

Lea Co., NM

Sample: 310961 - AH-2 0-1'

Laboratory:

Midland TPH GRO

Analysis: QC Batch: 95521 Prep Batch: 80935 Analytical Method: Date Analyzed:

S 8015 D 2012-10-06 Sample Preparation: 2012-10-06

Prep Method: S 5035Analyzed By: YG

Prepared By: YG

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
GRO	U	1	< 1.00	mg/Kg	1	1.00

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	70 - 130
4-Bromofluorobenzene (4-BFB)			1.68	mg/Kg	1	2.00	84	70 - 130

Sample: 310962 - AH-2 1-1.5'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 95570 Prep Batch: 80964

Analytical Method: Date Analyzed:

SM 4500-Cl B 2012-10-09

Prep Method: N/A Analyzed By: AR

Prepared By:

Sample Preparation: 2012-10-08

AR

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 20.0	mg/Kg	5	4.00

Sample: 310963 - AH-2 2-2.5'

Laboratory:

Midland

Analysis: QC Batch: 95570 Prep Batch: 80964

Chloride (Titration)

Analytical Method: Date Analyzed: Sample Preparation: SM 4500-Cl B 2012-10-09 2012-10-08

Prep Method: N/A Analyzed By: AR

Prepared By: AR

RLResult RL Flag Cert Units Dilution Parameter Chloride <20.0 mg/Kg 4.00 U

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 12 of 25

Lea Co., NM

Sample: 310964 - AH-2 3-3.5'

Laboratory:

Midland

Analysis: QC Batch: 95570

Chloride (Titration)

Prep Batch: 80964 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09

2012-10-08

Prep Method: N/A Analyzed By: AR.

Prepared By:

5

RL

Parameter Chloride

Flag Cert Result 94.5

Units mg/Kg Dilution

RL4.00

AR

Sample: 310965 - AH-2 4-4.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 95570 Prep Batch:

Analytical Method:

SM 4500-Cl B 2012-10-09

Prep Method: N/A Analyzed By: AR AR.

80964

Date Analyzed: Sample Preparation:

2012-10-08

Prepared By:

Parameter Chloride

Flag U

RLResult <20.0

Units mg/Kg Dilution 5

RL4.00

Sample: 310966 - AH-2 5-5.5'

Laboratory:

Midland

Analysis:

Parameter

Chloride

Chloride (Titration)

Flag

U

QC Batch: 95570 Prep Batch: 80964

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2012-10-09

2012-10-08

Prep Method: N/A Analyzed By: AR Prepared By: AR

Cert

Cert

RLResult < 20.0

Units mg/Kg

5

Dilution

RL

4.00

N/A

Sample: 310967 - AH-2 6-6.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 95570 Prep Batch: 80964 Analytical Method: Date Analyzed:

SM 4500-Cl B 2012-10-09 Sample Preparation: 2012-10-08

Prep Method: Analyzed By:

AR Prepared By: AR

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 13 of 25

Lea Co., NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			< 20.0	mg/Kg	5	4.00

Sample: 310968 - AH-2 7-7.5'

Laboratory: Midland

Chloride (Titration) Analysis: QC Batch: 95570 Prep Batch: 80964

Analytical Method: Date Analyzed:

SM 4500-Cl B 2012-10-09 Sample Preparation: 2012-10-08

Prep Method: N/A

Analyzed By: ARPrepared By: AR

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		<20.0	mg/Kg	5	4.00

Sample: 310969 - AH-2 7.5-8'

Laboratory:

Chloride

Midland

Analysis: Chloride (Titration) QC Batch: 95570 Prep Batch: 80964

Analytical Method: Date Analyzed:

SM 4500-Cl B 2012-10-09 2012-10-08

Units

mg/Kg

Prep Method: N/A Analyzed By: AR Prepared By: AR

Cert Result Parameter Flag

U

Sample Preparation: RL

< 20.0

Dilution RL5 4.00 Report Date: October 10, 2012 114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 14 of 25 Lea Co., NM

### Method Blanks

Method Blank (1) QC Batch: 95513

QC Batch: 95513 Prep Batch: 80935 Date Analyzed: 2012-10-06 QC Preparation: 2012-10-06 Analyzed By: YG Prepared By: YG

MDL Cert Result Units RL Parameter Flag < 0.00100 Benzene mg/Kg 0.02 mg/Kg 0.02 Toluene < 0.00100 Ethylbenzene < 0.00110 mg/Kg 0.02mg/Kg < 0.00360 0.02**Xylene** 

Spike Percent Recovery Recovery Units Dilution Limits Flag Cert Result Amount Surrogate 70 - 130 Trifluorotoluene (TFT) 1.70 mg/Kg 2.00 85 1 2.00 82 70 - 130 4-Bromofluorobenzene (4-BFB) 1.64 mg/Kg 1

Method Blank (1) QC Batch: 95521

QC Batch: 95521 Prep Batch: 80935 Date Analyzed: 2012-10-06 QC Preparation: 2012-10-06 Analyzed By: YG Prepared By: YG

Spike Percent Recovery Flag Cert Result Units Dilution Amount Recovery Limits Surrogate Trifluorotoluene (TFT) 2.00 91 70 - 130 1.82 mg/Kg 1 70 - 130 4-Bromofluorobenzene (4-BFB) 1.70 mg/Kg 1 2.00 85

Method Blank (1) QC Batch: 95522

QC Batch: 95522 Prep Batch: 80944 Date Analyzed: 2012-10-08 QC Preparation: 2012-10-05

Analyzed By: CW Prepared By: CW

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 15 of 25

Lea Co., NM

114-6401536		
		-

	with the same transfer of the		Spike	Percent	Recovery
DRO		1	< 9.09	mg/Kg	50
Parameter	Flag	Cert	Result	Units	RL
			MDL		

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			110	mg/Kg	1	100	110	70 - 130

Method Blank (1)

QC Batch: 95569

Flag

QC Batch: 95569

2012-10-09 Date Analyzed:

Analyzed By: AR Prepared By: AR

Prep Batch: 80964

Parameter

Chloride

QC Preparation: 2012-10-08

Cert

MDL Result Units RL< 3.85 mg/Kg 4

Method Blank (1)

QC Batch: 95570

QC Batch: 95570 Prep Batch: 80964 Date Analyzed: 2012-10-09 QC Preparation: 2012-10-08

Analyzed By: AR Prepared By: AR

RL

MDL Units Parameter Flag Cert Result mg/Kg Chloride < 3.85

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 16 of 25 Lea Co., NM

# Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 95513 Prep Batch: 80935 Date Analyzed: 2012-10-06 QC Preparation: 2012-10-06 Analyzed By: YG Prepared By: YG

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		1	1.97	mg/Kg	1	2.00	< 0.00100	98	70 - 130
Toluene		1	1.80	mg/Kg	1	2.00	< 0.00100	90	70 - 130
Ethylbenzene		1	1.75	mg/Kg	1	2.00	< 0.00110	88	70 - 130
Xylene		1	5.32	mg/Kg	1	6.00	< 0.00360	89	70 - 130

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	1.82	mg/Kg	1	2.00	< 0.00100	91	70 - 130	8	20
Toluene		1	1.67	mg/Kg	1	2.00	< 0.00100	84	70 - 130	8	20
Ethylbenzene		1	1.64	mg/Kg	1	2.00	< 0.00110	82	70 - 130	6	20
Xylene		1	4.97	mg/Kg	1	6.00	< 0.00360	83	70 - 130	7	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.74	1.72	mg/Kg	1	2.00	87	86	70 - 130
4-Bromofluorobenzene (4-BFB)	1.72	1.67	mg/Kg	1	2.00	86	84	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 95521 Prep Batch: 80935 Date Analyzed: 2012-10-06 QC Preparation: 2012-10-06 Analyzed By: YG Prepared By: YG

LCS Matrix Rec. Spike Param Result Units Dil. Amount Result Rec. Limit GRO 17.8 mg/Kg 1 20.0 3.63 71 70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.  $continued \dots$ 

Released to Imaging: 6/27/2023 4:23:03 PM

Work Order: 12100516

Page Number: 17 of 25

114-6401536

COG/LPC 31 Fed. #2 TB

Lea Co., NM

control spikes continued ...

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Param	F	С	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	16.4	mg/Kg	1	20.0	3.63	82	70 - 130	8	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.08	2.07	mg/Kg	1	2.00	104	104	70 - 130
4-Bromofluorobenzene (4-BFB)	1.82	1.82	mg/Kg	1	2.00	91	91	70 - 130

#### Laboratory Control Spike (LCS-1)

QC Batch: 95522 Prep Batch: 80944

Date Analyzed: 2012-10-08 QC Preparation: 2012-10-05

Analyzed By: CW Prepared By: CW

LCS Spike Matrix Rec. F Units Dil. Param Result Amount Result Rec. Limit DRO 241 mg/Kg 1 250 < 9.09 96 70 - 130

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1	290	mg/Kg	1	250	< 9.09	116	70 - 130	18	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	125	113	mg/Kg	1	100	125	113	70 - 130

#### Laboratory Control Spike (LCS-1)

QC Batch: 95569 Prep Batch: 80964 Date Analyzed: 2012-10-09 QC Preparation: 2012-10-08

Analyzed By: AR Prepared By: AR

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2600	mg/Kg	1	2500	< 3.85	104	85 - 115

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 18 of 25

Lea Co., NM

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2530	mg/Kg	1	2500	< 3.85	101	85 - 115	3	20

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

### Laboratory Control Spike (LCS-1)

QC Batch: 958

95570

Date Analyzed: 2012-10-09

Analyzed By: AR Prepared By: AR

Prep Batch: 80964

QC Preparation: 2012-10-08

ix Rec.

Result U	Units I	Dil.	Amount	Result	Rec.	Limit
2620 m	ng/Kg	1	2500	< 3.85	105	85 - 115
	2020 11	2020 Ilig/Ng	2020 mg/Kg 1	2020 Hig/Ng 1 2500	2020 Hig/Ng 1 2000 \ 3.65	2020 Hig/Ng 1 2000 \ 3.60 100

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2710	mg/Kg	1	2500	< 3.85	108	85 - 115	3	20

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

#### Matrix Spike (MS-1) Spiked Sample: 310961

QC Batch: 95513 Prep Batch: 80935 Date Analyzed: 2012-10-06 QC Preparation: 2012-10-06

Analyzed By: YG Prepared By: YG

			MS			Spike	Matrix		Rec.
Param	$\mathbf{F}$	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		1	1.55	mg/Kg	1	2.00	< 0.00100	78	70 - 130
Toluene		1	1.67	mg/Kg	1	2.00	< 0.00100	84	70 - 130
Ethylbenzene		1	1.74	mg/Kg	1	2.00	< 0.00110	87	70 - 130
Xylene		1	5.31	mg/Kg	1	6.00	< 0.00360	88	70 - 130

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

			MSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	1.60	mg/Kg	1	2.00	< 0.00100	80	70 - 130	3	20
Toluene		1	1.72	mg/Kg	1	2.00	< 0.00100	86	70 - 130	3	20
Ethylbenzene		1	1.77	mg/Kg	1	2.00	< 0.00110	88	70 - 130	2	20
Xylene		1	5.40	mg/Kg	1	6.00	< 0.00360	90	70 - 130	2	20

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 19 of 25

Lea Co., NM

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.72	1.73	mg/Kg	1	2	86	86	70 - 130
4-Bromofluorobenzene (4-BFB)	1.70	1.70	mg/Kg	1	2	85	85	70 - 130

Matrix Spike (MS-1) Spiked Sample: 310961

QC Batch: 9

95521

Date Analyzed: 2012-10-06

Analyzed By: YG

Prep Batch: 80935

QC Preparation: 2012-10-06

Prepared By: YG

			MS			Spike	Matrix		Rec.
Param	$\mathbf{F}$	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1	19.7	mg/Kg	1	20.0	< 0.482	98	70 - 130

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

			MSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1	17.0	mg/Kg	1	20.0	< 0.482	85	70 - 130	15	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.53	2.11	mg/Kg	1	2	126	106	70 - 130
4-Bromofluorobenzene (4-BFB)	1.80	1.84	mg/Kg	1	2	90	92	70 - 130

Matrix Spike (MS-1) Spiked Sample: 311080

QC Batch: 95522 Prep Batch: 80944 Date Analyzed: 2012-10-08 QC Preparation: 2012-10-05

Analyzed By: CW Prepared By: CW

MS Spike Matrix Rec. C Result Units Dil. Result Limit Param Amount Rec. DRO 266 mg/Kg 250 < 9.09 106 70 - 130

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

			MSD			Spike	Matrix		Rec.		RPD
Param	F	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1	251	mg/Kg	1	250	< 9.09	100	70 - 130	6	20

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

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 20 of 25

Lea Co., NM

Surrogate	${ m MS}$ Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	109	108	mg/Kg	1	100	109	108	70 - 130

Matrix Spike (MS-1) Spiked Sample: 310959

QC Batch: 95569 Prep Batch: 80964 Date Analyzed: 2012-10-09 QC Preparation: 2012-10-08

Analyzed By: AR Prepared By: AR

MS Spike Matrix Rec. F C Result Units Dil. Amount Result Limit Param Rec. Chloride 2670 mg/Kg 5 2500 <19.2 107 78.9 - 121

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

Spike RPD MSD Rec. Matrix Param F C Result Units Dil. Amount Result Rec. Limit RPDLimit Chloride 2610 mg/Kg 5 2500 <19.2 104 78.9 - 121 20

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

Matrix Spike (MS-1) Spiked Sample: 310969

QC Batch: 95570 Prep Batch: 80964 Date Analyzed: 2012-10-09 QC Preparation: 2012-10-08

Analyzed By: AR Prepared By: AR

MS Spike Matrix Rec. F C Result Units Dil. Amount Result Rec. Limit Param 2580 2500 <19.2 103 78.9 - 121 Chloride mg/Kg 5

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

Spike RPD Matrix MSD Rec. Dil. RPD Param C Result Units Amount Result Rec. Limit Limit Chloride 2700 mg/Kg 5 2500 <19.2 108 78.9 - 121 20

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

Report Date: October 10, 2012 114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 21 of 25 Lea Co., NM

# Calibration Standards

Standard (CCV-1)

QC Batch: 95513

Date Analyzed: 2012-10-06

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.101	101	80 - 120	2012-10-06
Toluene		1	mg/kg	0.100	0.0902	90	80 - 120	2012-10-06
Ethylbenzene		1	mg/kg	0.100	0.0859	86	80 - 120	2012-10-06
Xylene		1	mg/kg	0.300	0.260	87	80 - 120	2012-10-06

Standard (CCV-2)

QC Batch: 95513

Date Analyzed: 2012-10-06

Analyzed By: YG

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/kg	0.100	0.0825	82	80 - 120	2012-10-06
Toluene		1	mg/kg	0.100	0.0867	87	80 - 120	2012-10-06
Ethylbenzene		1	mg/kg	0.100	0.0868	87	80 - 120	2012-10-06
Xylene		1	mg/kg	0.300	0.263	88	80 - 120	2012-10-06

Standard (CCV-3)

QC Batch: 95513

Date Analyzed: 2012-10-06

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0824	82	80 - 120	2012-10-06
Toluene		1	mg/kg	0.100	0.0871	87	80 - 120	2012-10-06
Ethylbenzene		1	mg/kg	0.100	0.0857	86	80 - 120	2012-10-06
Xylene		1	mg/kg	0.300	0.260	87	80 - 120	2012-10-06

Report Date: October 10, 2012 114-6401536 Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 22 of 25

Lea Co., NM

Standard (CCV-1)

QC Batch: 95521

Date Analyzed: 2012-10-06

Analyzed By: YG

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	1.16	116	80 - 120	2012-10-06

Standard (CCV-2)

QC Batch: 95521

Date Analyzed: 2012-10-06

Analyzed By: YG

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	0.872	87	80 - 120	2012-10-06

Standard (CCV-3)

QC Batch: 95521

Date Analyzed: 2012-10-06

Analyzed By: YG

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	1.14	114	80 - 120	2012-10-06

Standard (CCV-1)

QC Batch: 95522

Date Analyzed: 2012-10-08

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	290	116	80 - 120	2012-10-08

Standard (CCV-2)

QC Batch: 95522

Date Analyzed: 2012-10-08

Analyzed By: CW

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 23 of 25

Lea Co., NM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	284	114	80 - 120	2012-10-08

Standard (CCV-3)

QC Batch: 95522

Date Analyzed: 2012-10-08

Analyzed By: CW

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	220	88	80 - 120	2012-10-08

Standard (CCV-4)

QC Batch: 95522

Date Analyzed: 2012-10-08

Analyzed By: CW

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	226	90	80 - 120	2012-10-08

Standard (CCV-1)

QC Batch: 95569

Date Analyzed: 2012-10-09

Analyzed By: AR

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	99.2	99	85 - 115	2012-10-09

Standard (CCV-2)

QC Batch: 95569

Date Analyzed: 2012-10-09

Analyzed By: AR

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB

Page Number: 24 of 25

Lea Co., NM

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2012-10-09

### Standard (CCV-1)

QC Batch: 95570

Date Analyzed: 2012-10-09

Analyzed By: AR

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2012-10-09

### Standard (CCV-2)

QC Batch: 95570

Date Analyzed: 2012-10-09

Analyzed By: AR

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	99.2	99	85 - 115	2012-10-09

114-6401536

Work Order: 12100516 COG/LPC 31 Fed. #2 TB Page Number: 25 of 25

Lea Co., NM

# Appendix

### Report Definitions

Name	Definition
$\overline{\mathrm{MDL}}$	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
1	NELAP	T104704392-12-4	Midland

### 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.
- 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

The scanned attachments will follow this page.

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

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Please fill out all copies - Laboratory retains Vellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy

Š RUSH Charges Authorized: Results by: Yes Major Anions/Cations, pH, TDS S ë. AIRBILL #: PLM (Asbestos) Besch Time: OTHER: (Circle or Specify Method No.) (hiA) steB shqlA ANALYSIS REQUEST Chloride Pest. 808/608 PAGE: PCB's 8080/608 icandis 12 TETRA TECH CONTACT PERSON GC.MS Semi. Vol. 8270/625 SAMPLE SHIPPENDY: (Circle) lavar. BUS UPS HAND DELIVERED TCLP Semi Volatiles SAMPLED BY: 13/7 TCLP Metals Ag As Ba Cd Vr Pd Hg Se FEDEX RCRA Metals Ag As Ba Cd Cr Pb Hg Se BTEX 80218 (Ext. to C35) **TX1005** SON STOR **PRESERVATIVE** METHOD NONE Request of Chain of Custody Record × ICE > Date: Date: Time: HINO3 нсг FILTERED (Y/N) TIME NUMBER OF CONTAINERS SITE MANAGER: (432) 682-4559 • Fax (432) 682-3946 RECEIVED BY: (Signature) RECEIVED BY: (Signature) LO IUV. SAMPLE IDENTIFICATION RECEIVED BY: (Signature) *FETRATECH* 1910 N. Big Spring St. Midland, Texas 79705 DATE: 2-2.5 アイン 6-1.5 といろ アナイン 2.3.5 11-5-01 REMARKS: AH-Z 7.45 2-11 AF2 ZIP: 开工 442 7-17 PROJECT NAME: CO4- 1.PC Time: PHONE 8AA9 COMP XIRTAM STATE: TIME Analysis CLIENT NAME: COC RELINQUISHED BY: (Signature) SAMPLE CONDITION WHEN DATE 2 RECEIVING LABORATORY: 14-6401536 INQUISHED BY: (Sig PROJECT NO. 996 963 2962 595 LAB I.D. NUMBER 967 CONTACT ADDRESS:

13/00/6/

District I
1625 N. French Dr., Hobbs, NM 88240
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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 233571

#### **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	233571
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

#### CONDITIONS

Creat	ed By		Condition Date
jhar	imon	None	6/27/2023