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

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

Release Notification and Corrective Action

						OPERA	ГOR		Initial	al Report	\boxtimes	Final Rep	ort
Name of Co	mpany	COG	Operatin	g LLC		Contact	Pa	at Ellis					
Address	550 W. Te	exas, Suite 1	300 Midl	and, Texas 797	01	Telephone N	No. (432)	230-00	77				
Facility Nar	ne LP	C 31 Federa	l #2 Tanl	Battery		Facility Typ	e T	ank Ba	ttery				
Surface Ow	ner: Feder	ral		Mineral O	wner				1	No. (API#) sest well lo		5-38157	
				LOCA	TIO	N OF REI	LEASE						
Unit Letter G	Section 31	Township 18S	Range 32E	Feet from the		/South Line	Feet from the	East/V	Vest Line	County	Lea		
				Latitude 32	12.376	Congitud	e 103 48.245			-			
				NAT	URE	OF REL							
Type of Relea	ase: Oil					Volume of	Release 12 bbls	oil	Volume F	Recovered 1	0 bbls		
Source of Re	ease: Heate	er Treater				09/06/2012		е		Hour of Dis 12 4:00 p.1			
Was Immedia	ate Notice C		Yes 🛛	No Not Rec	quired	If YES, To	Whom?						
By Whom?						Date and H	CONTRACTOR OF THE PARTY OF THE						
Was a Watero	course Reac		Yes 🛛	No		If YES, Vo	lume Impacting t	he Wate	rcourse.				
If a Watercou	rse was Im	pacted, Descri	be Fully.*										
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*									
The heater wa line was clog replaced.	as not empti ged which o	ied completely lid not allow f	y prior to u for the emp	nbolting the fire trying of all the flu	ube for	maintenance.	When the fire to The drain line h	ibe was nas been	unbolted fl unclogged	luid was rele and the fire	eased.	The drain as been	7. 1.
Describe Are	a Affected a	and Cleanup A	Action Take	n.*									1
				ted samples to de OCD for review.	fine the	e spills extent	. No soils exceed	ed the F	RAL for E	BTEX or TP	H. Tet	ra Tech	
regulations al public health should their o	or the envir perations hament. In a	are required to conment. The ave failed to a dditton, NMO	report and acceptance dequately in CD accepta	/or file certain re of a C-141 repor nvestigate and re	lease notes that the desired t	otifications and NMOCD made contamination	knowledge and und perform correct arked as "Final Reson that pose a three the operator of r	tive acti eport" de eat to gr	ons for rele oes not reli ound water	eases which eve the oper , surface wa	may en rator of iter, hu	danger liability man health	
Signature:	///	11	1				OIL CONS	SERV	ATION	DIVISIO	<u>N</u>		
Printed Name	: Ike Tavaı	rez (agent for	t COG)			Approved by	District Superviso	or:					
Title: Project	Manager					Approval Date	e:	E	Expiration l	Date:		16.5	
E-mail Addre		arez@TetraTe	,	432) 682-4559		Conditions of	Approval:			Attached			
Attach Addit	- /			732) UUL- 1 333			- 1					- n	

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 PJXK 16 Ø 1132 Ø Ø 1 4098 Form C-141 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

						OPERA'	ГOR			al Report		Final Report
Name of Co	mpany	COG OP	ERATING	LLC		Contact	Pa	at Ellis				
Address				land, TX 7970		Telephone 1		230-00	77			
Facility Nan	ne l	LPC 31 Fede	ral #2 Tar	k Battery		Facility Typ	e Tan	k Batte	гу			
Surface Own	ner Fede	ral		Mineral C	wner				Lease N	lo. (API#) Clo		0-025-38157 well location
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township		Feet from the	-	South Line	Feet from the	East/V	Vest Line	County		
G	31	185	32E							I	.ea	
				Latitude 32	42.376	Longitu	ide 103 48.245					
				NAT	URE	OF REL	THE RESERVE THE PARTY OF THE PA					4 .
Type of Relea							Release 12bbls			Recovered	10bbl	
Source of Rel	ease Heat	er Treater				Date and F 09/06/2012	lour of Occurrence	e		Hour of Disc 2 4:00 p.m		
Was Immedia	Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Requ						Whom?		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
By Whom?						Date and Hour If YES, Volume Impacting the Watercourse.						
Was a Watero	ourse Read					If YES, Vo	olume Impacting t	he Wate	ercourse.			
			Yes 🛛	No								
If a Watercou	rse was Im	pacted, Descri	be Fully.*									
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*								
							. When the fire tu ain line has been					
Describe Area	Affected a	and Cleanup A	ction Take	n.*								
vacuum truck surface has be remediation v	. The spill een remove vork plan to	area measures d. Tetra Tech o the NMOCD	approxima will sample /BLM for a	tely a 7' x 15' a the spill site an approval prior to	ea to de any sig	and the heater lineate any po nificant reme		ave beer ion fron	recovered the release	contaminate e and we wil	d soil l prese	at the ent a
regulations al public health should their o	or the envir perations h ment. In a	are required to conment. The ave failed to a ddition, NMO	report and acceptance dequately i CD accepta	or file certain r of a C-141 reponsestigate and r	elease nort by the emediate	otifications as e NMOCD m e contaminati	knowledge and used perform correct arked as "Final Room that pose a three the operator of rectangle and the contract of the co	tive acti eport" d eat to gr	ons for rele oes not reli- ound water	eases which reve the opera , surface wat	nay er itor of er, hu	danger liability man health
Mark Control	/	7 -	>				OIL CONS	SERV	ATION	DIVISIO	N	
Signature:	1/-	-11	5									
Printed Name	:	Josh	Russo			Approved by	District Supervise	or:		3		
Title:		HSE Co	ordinator			Approval Dat	e:	1	Expiration I	Date:		
E-mail Addre	Easter	jrusso@conc			_	Conditions of	Approval:			Attached		
Date: Attach Addit	09/17/2012 ional Shee			32-212-2399							_	

		SIT	E INFO	RMATIC	NC		HOBBS	
		Report	Type:	Closure	Rep	ort	NOV 02 ZU12	
General Site Inf	ormation:						2 2012	
Site:		LPC 31 Feder	al #2 Tan	k Battery				
Company:		COG Operation	ng LLC		w.t.	and the same of th	RECEIVED	
Section, Towns	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner,		Sec 31	T189	3	R32E		
Lease Number:		API-30-015-31	366					Section 1
County:		Lea County						
GPS:		32.70670° N				103.80429	9° W	
Surface Owner:		Federal						- 69 rslV. 1
Mineral Owner: Directions:							ith on CR 126A approxim	
							e road. Follow the road to avel for 0.1 miles to site.	urning to the
Release Data:		10/0/0040						
Date Released: Type Release:		9/6/2012 Oil						
Source of Contai	mination:	Heater Treater	,					
Fluid Released:	minauon.	12 bbls oil						
Fluids Recovered	d:	10 bbls oil		The state of the s				
Official Commu		Na Property Comments						Charles
Name:	Pat Ellis					Ike Tavare	Z	
Company:	COG Operating, L	LC				Tetra Tech		
Address:	550 W. Texas Ave					1910 N. Big	g Spring	
P.O. Box			1.					
City:	Midland Texas, 79	701				Midland, Te	exas	
Phone number:	(432) 686-3023					(432) 682-4	4559	
Fax:	(432) 684-7137							
Email:	pellis@conchores	ources.com				ike.tavare	z@tetratech.com	

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
	w ⁴	
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	

Accepta	ble Soil RRAL (mg/kg)
Benzene	Total BTEX	TPH
10	50	5,000



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.



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

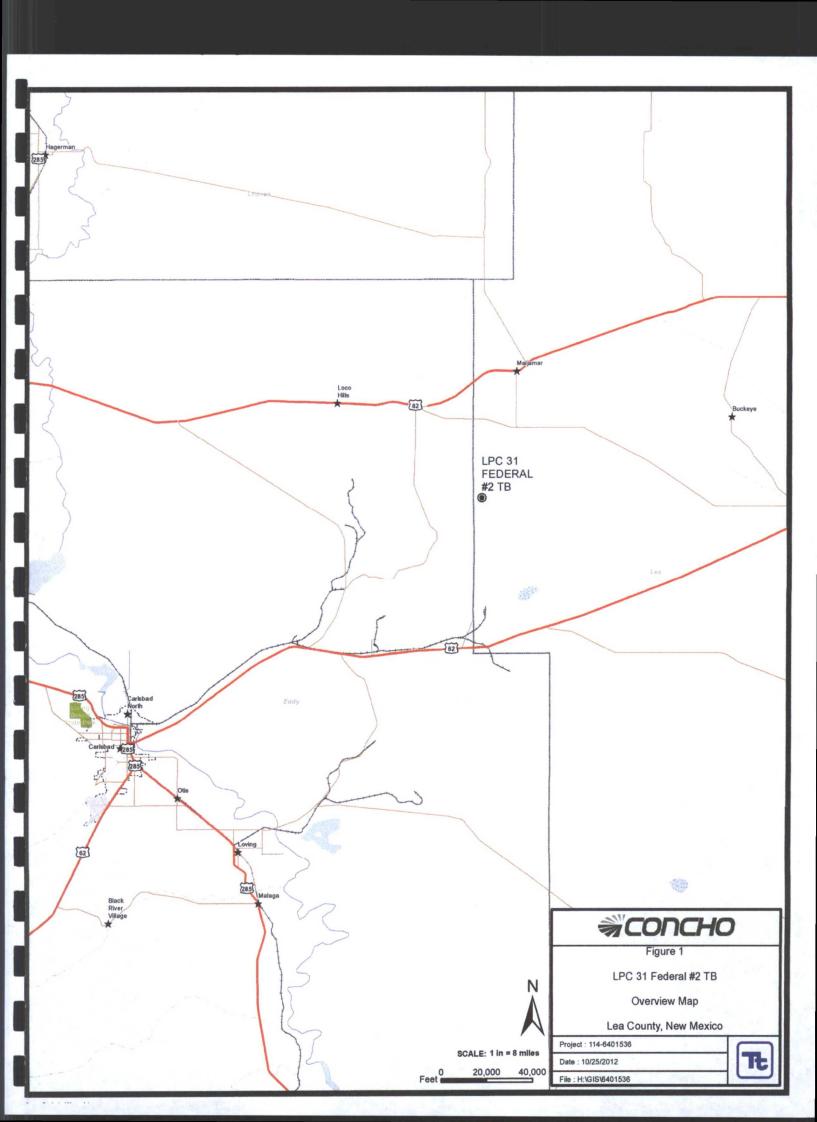
Based on the results, no corrective action is required for the spill area and COG requests closure for this site. The C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

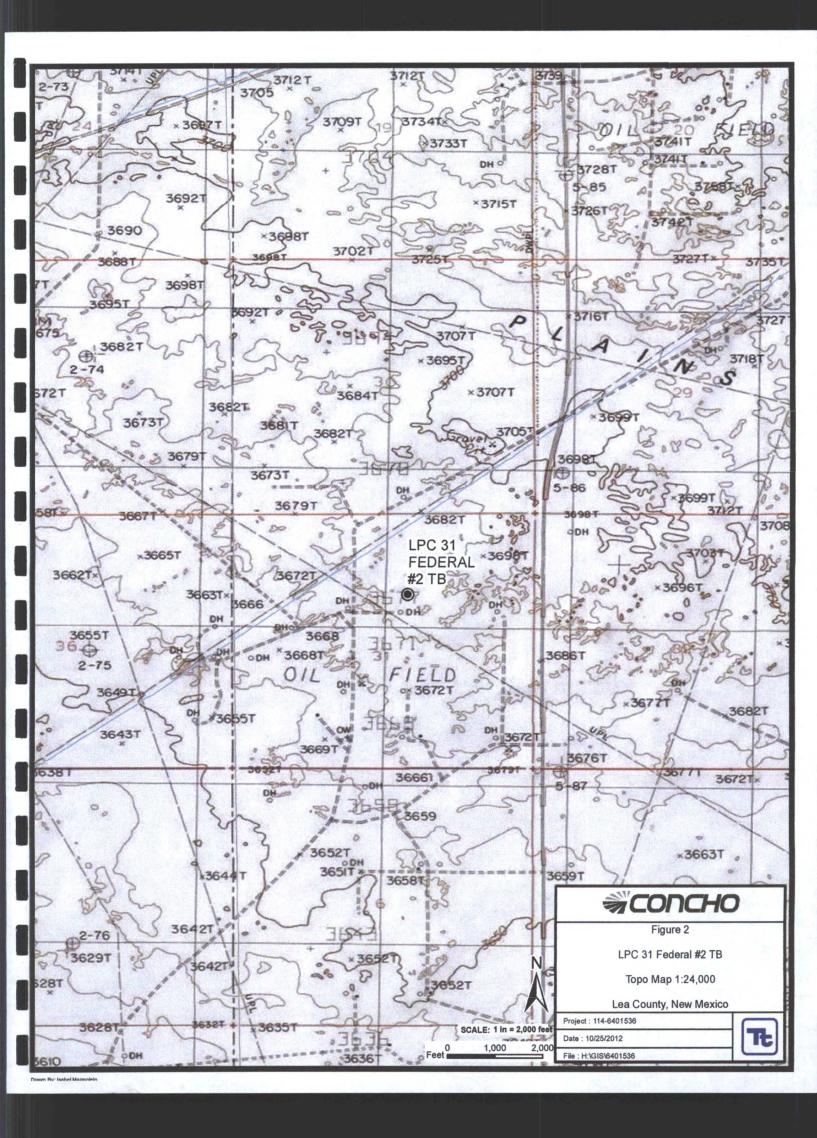
Respectfully submitted,

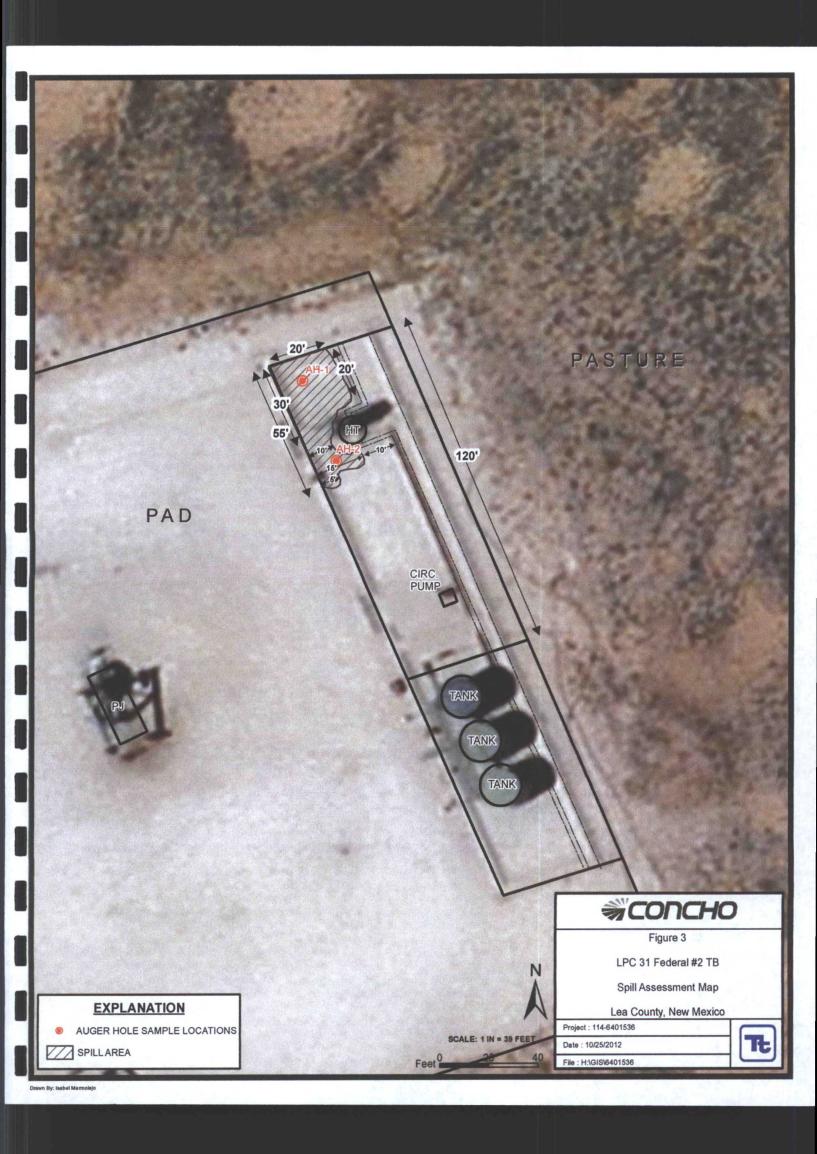
TETRA TEGH

Ike Tavarez

Senior Project Manager







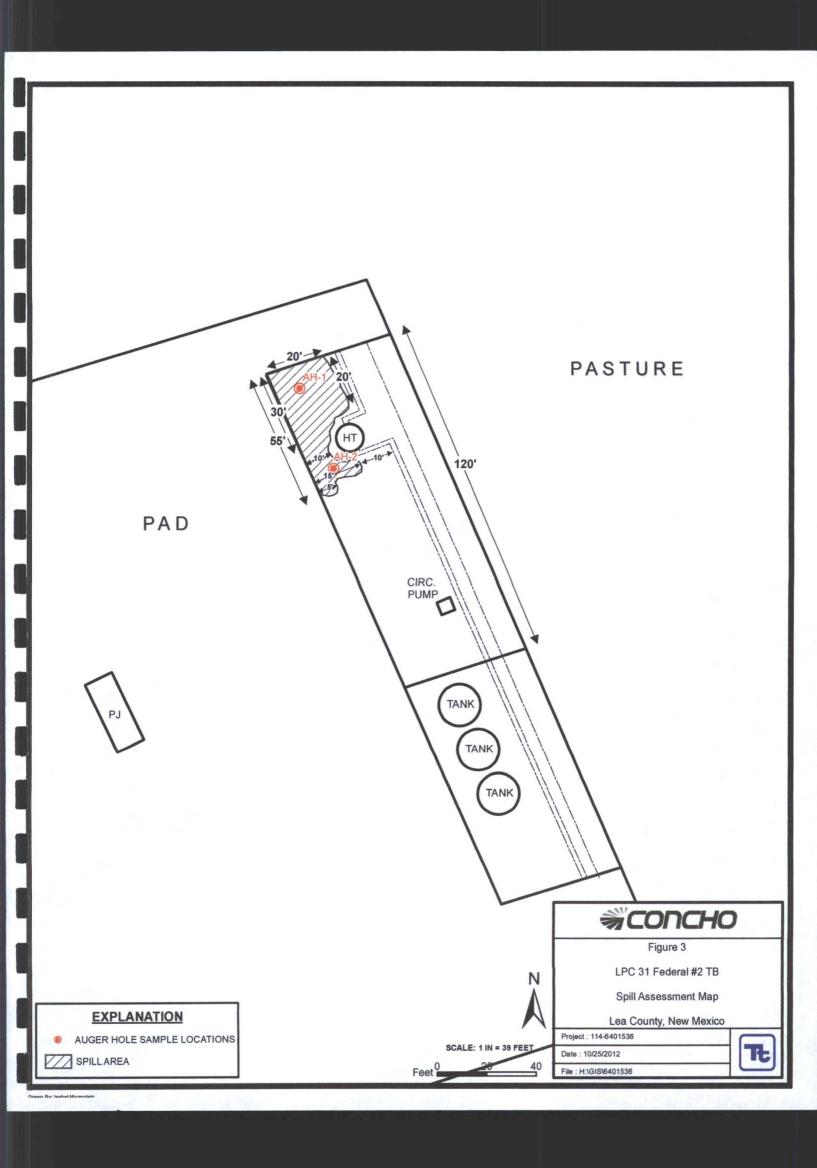


Table 1
COG Operating LLC.
LPC 31 Federal #2 Tank Battery
Lea County, New Mexico

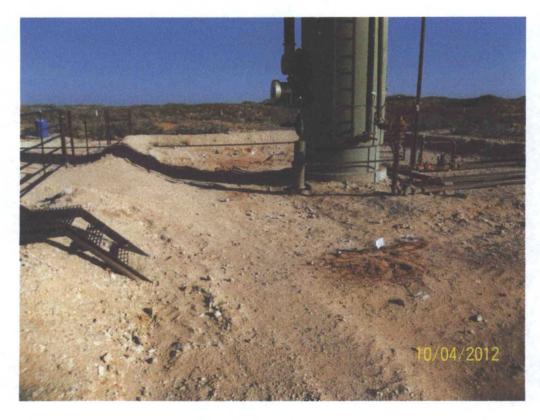
Date Depth (ff) In-Situ Removed GRO In-Situ In-Situ Removed GRO In-Situ In-Situ	Soil Status TPH (mg/kg)	(kg)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
10/4/2012	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
1-1.5	<1.00 <50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<20.0
3-3.5	'	ı	,		1			<20.0
3-3.5	,	,	,	,	1	1		<20.0
10/4/2012	,	,	,		1	,		<20.0
6-6.5		,	,		1	1		<20.0
6-6.5 X	,				1	,		<20.0
8-8.5 X - 1004/2012	,	,		,	1	,		<20.0
8-8.5	,	ı	,	1	1	,	,	<20.0
10/4/2012		,	1	,	1		-	74.6
10/4/2012								
1-1.5 X 2-2.5 X 3-3.5 X 4-4.5 X 6-6.5 X	<1.00 <50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<20.0
2-2.5 X 3-3.5 X 4-4.5 X 6-6.5 X			,	-	1	1	-	<20.0
3-3.5 X 4-4.5 X 5-5.5 X 6-6.5 X		,		,	1	,		<20.0
6-6.5 X 6-6.5 X 6-6.5 X	,	,	,		,	,		94.5
6-6.5 X 6-6.5 X	,	,	,			,		<20.0
6-6.5 X		,		1				<20.0
7-7.5 X		,	,	1	1	,		<20.0
		,		-	-	,		<20.0
- X 3-5-8 X - 1.5-8						,	,	<20.0

TETRA TECH

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

_	THE OWNER WHEN PERSONS NAMED IN	outh	STREET, SQUARE, SQUARE	1 East			THE RESERVED	South	STREET, SQUARE, SQUARE,	East	-			17 S	The real Property lies and the least lies and the lies and the lies and the least lies and the least lies and the lies and t		East	T.
3	5	4	3	2	1	6	5	4 82	3	2 60	1 225	6	90 5		4	3 155	2 158	1 15
,	8	9	10	11	12	7	8	Maljam 9	10	11 70	12 120	7 1	67 8		9	10	11	12
	1	1	1.0			ľ		1		88	1.2			73	161			
8	17	16	15	14	13	18	17	16	15	14	13	18	1		16	15	14	13
			-	-				-	-	000		188		80	0.1	100	100	165
9	20	21	22 SITE	23	24	19	20	21 SITE	22	23	24	19	2	90	21	22	23 115	24
10	29	28	27	26	25	30 180	29	28	27	26	25	30			28	27	26	25
						dry												
1	32	33	34	35	36	31	32	33	34	35	36	31	3	2	33	34	35	36
			271		SITE	Brown							_		120		155	
	18 9	South	3	1 East			18 9	South	32	East				18 S	outh	33	East	
3	5	4	3	2	1	6	5	4 65		2	1	6	5		4	3	2	1
									Prong #2				_			60		
7	8	9	10	11	12	7 460	8	9	10	11	12	7	8	100		10	11	12 143
8	17	16	15	14	13	82 18	17	16	15	14	13	18	1	7	16	Maljam 15	14	13
0	1''	10	13	317	13	10	17	84	13	14	10	1.0		5	10	10	36	60
9	20	21	22	23	24	19	20	21	22	23	24	19	2		21	22	23	24
							164		429			>140					-	195
30	29	28	27	26	25	30	29	28	27	26	25	30 35	2	9	28	27	26	25
31	32	33	34	35	36	31 Site	32	33	34	35	36	31	3	2	33	34	35	36
				261					117						177			
	40.0		_				40.0		00	F				10.0	41-	00	Fact	
,	The Real Property lies and the least lies and the lies and the lies and the least lies and the least lies and the lies and t	outh	THE R. P. LEWIS CO., LANSING	1 East	14	6	19 8	South 4	32	East 2	1	6	5	19 S	4	3	East 2	1
3	5 SITE	4	3	2	l'	O	5	4	3	2		o	ľ		*	3	-	1
7	8	9	10	11	12	7	8	9	10	11	12	7	8		9	10	11	12
							365						_					
8	17	16	15	14	13	18	17	16	15	14	13 135	18	1	7 16	16	15	14	13
9	20	21	22	23	24	19	20	21	22	23	dry 24	340 19	2		21	22	23	24
0	20	21	2	20	24	102	345	[-'		20		1.0	-		- '		-	-
0	29	28	27	26	25	30	29	28	27	26	25	30	2	9	28 130	27	26 92	25
		180	101	105	100	0.4	00	100	0.4	05	00	04	-	2	dry	0.4	85	000
	32	33 101	34	35	36 130	31	32	33	34 250	35	36	31	3	2 85	33	34	35	36
31							1		1500									

NMOCD - Groundwater Data

New Mexico Water and Infrastructure Data System

Field water level

Work Order: 12100516

Page Number: 1 of 4

Report Date: October 10, 2012

Work Order: 12100516

Summary Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street

Midland, TX 79705

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'

*	10, 2012	Work Order: 12100516	Page 1	Number: 2 of 4
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 310953 - A	H-1 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 310954 - A	H-1 2-2.5'			
Param	Flag	Result	Units	RL
Chloride	0	<20.0	mg/Kg	4
Sample: 310955 - A	H-1 3-3.5'			
Param	Flag	Result	Units	RL
Chloride	1 100	<20.0	mg/Kg	4
			0, 0	4
Param	H-1 4-4.5' Flag	Result <20.0	Units mg/Kg	RL 4
Param Chloride	Flag		Units	
Param Chloride Sample: 310957 - A	Flag H-1 5-5.5'	<20.0	Units mg/Kg	4
Sample: 310956 - A Param Chloride Sample: 310957 - A Param Chloride	Flag		Units	4 RL
Param Chloride Sample: 310957 - A	Flag H-1 5-5.5' Flag	<20.0 Result	Units mg/Kg Units	4 RL
Param Chloride Sample: 310957 - A Param Chloride	Flag H-1 5-5.5' Flag H-1 6-6.5'	<20.0 Result	Units mg/Kg Units	
Param Chloride Sample: 310957 - A Param Chloride Sample: 310958 - A Param	Flag H-1 5-5.5' Flag	<20.0 Result <20.0	Units mg/Kg Units mg/Kg	RL 4
Param Chloride Sample: 310957 - A Param Chloride Sample: 310958 - A	Flag H-1 5-5.5' Flag H-1 6-6.5' Flag	<20.0 Result <20.0	Units mg/Kg Units mg/Kg Units	RL 4
Param Chloride Sample: 310957 - A Param Chloride Sample: 310958 - A Param Chloride	Flag H-1 5-5.5' Flag H-1 6-6.5' Flag	<20.0 Result <20.0	Units mg/Kg Units mg/Kg Units	RL 4

	er 10, 2012	Work Order: 12100516	Pε	age Number: 3 of 4
Sample: 310960 -	AH-1 8-8.5'			
Param	Flag	Result	Units	RL
Chloride		74.6	mg/Kg	4
Sample: 310961 -	AH-2 0-1'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 310962 -	AH-2 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
		Result	Units	RI
Param	AH-2 3-3.5' Flag	Result 94.5	Units mg/Kg	RL 4
Sample: 310964 - Param Chloride Sample: 310965 -	Flag		Units mg/Kg	
Param Chloride	Flag		mg/Kg Units	
Param Chloride Sample: 310965 -	Flag AH-2 4-4.5'	94.5	mg/Kg	4 RL
Param Chloride Sample: 310965 - Param Chloride Sample: 310966 -	Flag AH-2 4-4.5' Flag AH-2 5-5.5'	94.5 Result <20.0	mg/Kg Units mg/Kg	RL 4
Param Chloride Sample: 310965 - Param Chloride Sample: 310966 - Param	Flag AH-2 4-4.5' Flag	94.5 Result <20.0 Result	mg/Kg Units mg/Kg Units	RL 4
Param Chloride Sample: 310965 - Param Chloride Sample: 310966 - Param	Flag AH-2 4-4.5' Flag AH-2 5-5.5'	94.5 Result <20.0	mg/Kg Units mg/Kg	RL 4
Param Chloride Sample: 310965 -	Flag AH-2 4-4.5' Flag AH-2 5-5.5' Flag	94.5 Result <20.0 Result	mg/Kg Units mg/Kg Units	RL 4
Param Chloride Sample: 310965 - Param Chloride Sample: 310966 - Param Chloride	Flag AH-2 4-4.5' Flag AH-2 5-5.5' Flag	94.5 Result <20.0 Result	mg/Kg Units mg/Kg Units	RL 4

Work Order: 12100516

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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



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9/2-242-/

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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control 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

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
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

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

TPH GRO

95521

Analytical Method:

S 8015 D

Prep Method: S 5035

QC Batch: Prep Batch:

80935

Date Analyzed: 2012-10-06 Sample Preparation: 2012-10-06 Analyzed By: Prepared By:

YG YG

Cert Parameter Flag

RLResult

Units Dilution RL

<1.00 \overline{GRO} mg/Kg 1.00 U 1 Spike Percent Recovery

Flag Units Dilution Amount Recovery Limits Cert Result 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: 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 AR Analyzed By: Prepared By: AR.

RLDilution Cert Parameter Flag Result Units RLChloride < 20.0 mg/Kg 5 4.00 U

Sample: 310954 - AH-1 2-2.5'

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

 $continued \dots$

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'

Laboratory:

Midland

Analysis: Cl QC Batch: 95 Prep Batch: 80

Chloride (Titration)

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

AR

AR

Prepared By:

Sample: 310956 - AH-1 4-4.5'

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:

Sample: 310957 - AH-1 5-5.5'

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 Prepared 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

Analytical Method:

SM 4500-Cl B 2012-10-09

Prep Method: Analyzed By:

N/A AR

Prep Batch: 80964

Date Analyzed: Sample Preparation:

2012-10-08

Prepared By: AR

Parameter

Chloride

Flag Cert

RLResult < 20.0

Units mg/Kg Dilution 5

RL4.00

AR

Sample: 310959 - AH-1 7-7.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: Prep Batch:

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:

RL

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

Sample: 310960 - AH-1 8-8.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B

Prep Method: N/A Analyzed By:

AR AR

QC Batch: Prep Batch:

95570 80964

Sample Preparation:

2012-10-09 2012-10-08

Prepared By:

			n.L			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			74.6	mg/Kg	5	4.00

DI

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:

Midland BTEX 95513

Analytical Method:

S 8021B 2012-10-06 Prep Method: S 5035

QC Batch: 80935 Prep Batch:

Date Analyzed: Sample Preparation:

2012-10-06

Analyzed By: YG 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: 95570

Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B

Units

mg/Kg

Prep Method: N/A AR Analyzed By:

Prepared By:

5

Prep Batch: 80964 Flag Cert Parameter

U

2012-10-09 Sample Preparation: 2012-10-08

Result

<20.0

RL

Dilution RL

AR

4.00

Sample: 310961 - AH-2 0-1'

Laboratory:

Chloride

Midland

95522

80944

Analysis: QC Batch: Prep Batch:

TPH DRO - NEW

Analytical Method: Date Analyzed: Sample Preparation:

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

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

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	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

Analysis: QC Batch: TPH GRO 95521

Analytical Method: Date Analyzed:

S 8015 D 2012-10-06 Prep Method: Analyzed By:

S 5035YG

Prep Batch: 80935

Sample Preparation: 2012-10-06

Prepared By: YG

RL

Cert Result

Units

Flag Dilution RLParameter GRO <1.00 1.00 U mg/Kg

						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: QC Batch: Chloride (Titration)

95570 Prep Batch: 80964

Analytical Method: Date Analyzed:

SM 4500-Cl B 2012-10-09

Prep Method: N/A Analyzed By: AR

Sample Preparation:

2012-10-08

Prepared By: 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:

Prep Batch:

Chloride (Titration)

Analytical Method: 95570 Date Analyzed: 80964 Sample Preparation:

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

Prep Method: N/A Analyzed By: AR

RL

Prepared By: AR

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

Chloride (Titration)

Flag

QC Batch: 95570 Prep Batch: 80964 Analytical Method:

SM 4500-Cl B 2012-10-09

Prep Method: N/A Analyzed By:

AR.

Date Analyzed: Sample Preparation:

2012-10-08

Prepared By: AR

RL

Parameter Chloride

Cert

Result Units 94.5 mg/Kg Dilution 5 RL

4.00

Sample: 310965 - AH-2 4-4.5'

Laboratory:

Midland

Analysis:

Chloride

Chloride (Titration)

QC Batch: 95570 Analytical Method:

SM 4500-Cl B 2012-10-09

Prep Method: N/A Analyzed By: AR

Prep Batch: 80964

Date Analyzed: Sample Preparation:

2012-10-08

Prepared By: AR.

Parameter

Flag U

RL

Units

mg/Kg

RL4.00

Sample: 310966 - AH-2 5-5.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

95570

Analytical Method:

SM 4500-Cl B 2012-10-09

Prep Method: N/A Analyzed By: AR

QC Batch: Prep Batch: 80964 Date Analyzed: Sample Preparation:

2012-10-08

Prepared By: AR

Cert

Cert

RLResult

< 20.0

Result

<20.0

Units

Parameter Chloride

Flag U

mg/Kg

Dilution 5

Dilution

5

RL

4.00

AR

Sample: 310967 - AH-2 6-6.5'

Laboratory:

Midland

Analysis:

Chloride (Titration)

95570 QC Batch:

Analytical Method: Date Analyzed:

SM 4500-Cl B 2012-10-09

Prep Method: N/AAnalyzed By: AR

Prep Batch: 80964

Sample Preparation:

2012-10-08

Prepared By:

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

Analysis:

Chloride (Titration)

QC Batch: Prep Batch: 80964

95570

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 Sample Preparation: 2012-10-08

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

Flag Cert Parameter

U

RLResult < 20.0

Units mg/Kg 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 Analyzed By: YG QC Preparation: 2012-10-06 Prepared By:

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 0.02< 0.00360 mg/Kg 0.02**Xylene**

Spike Percent Recovery Recovery Units Dilution Limits Surrogate Flag Cert Result Amount 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

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

Analyzed By: YG Prepared By: 2012-10-06 YG

MDL Units RL Parameter Flag Cert Result GRO < 0.482mg/Kg

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

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

114 - 6401536

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

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Lea Co., NM

Parameter		Flag		Cert		IDL sult	Units	RL
DRO				1	< 9.09		mg/Kg	50
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			110	mg/Kg	1	100	110	70 - 130

Method Blank (1)

QC Batch: 95569

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

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

114-6401536

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

2012-10-06

Page Number: 16 of 25 Lea Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 95513 Prep Batch: 80935

Date Analyzed: QC Preparation: 2012-10-06 Analyzed By: YG Prepared By: YG

Param	F	С	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec.	RPD	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			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1	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. $continued \dots$

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control spikes continued ...

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			LCSD			Spike	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	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.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1	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

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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:

Date Analyzed: 2012-10-09

Analyzed By: AR Prepared By: AR

Prep Batch: 80964

QC Preparation: 2012-10-08

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2620	mg/Kg	1	2500	< 3.85	105	85 - 115

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}	\mathbf{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	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

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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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec.
	resure	resure	Omos	DII.	Amount	nec.	nec.	Lillio
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: 95521 Prep Batch: 80935 Date Analyzed: 2012-10-06 QC Preparation: 2012-10-06

Analyzed By: YG Prepared By: YG

MS Spike Matrix Rec. Result Limit F Result Units Dil. Rec. Param Amount GRO 19.7 20.0 mg/Kg < 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.

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

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Lea Co., NM

C	MS	MSD	IIn:to	D:I	Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	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.
Param	\mathbf{F}	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
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.

			MSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2610	mg/Kg	5	2500	<19.2	104	78.9 - 121	2	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.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2580	mg/Kg	5	2500	<19.2	103	78.9 - 121

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
Chloride			2700	mg/Kg	5	2500	<19.2	108	78.9 - 121	4	20

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

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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

 $Date\ Analyzed:\ \ 2012\text{-}10\text{-}06$

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

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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 True	CCVs Found	CCVs Percent	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 True	CCVs Found	CCVs Percent	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

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

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Lea Co., NM

				CCVs True	CCVs Found	CCVs Percent	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 True	CCVs Found	CCVs Percent	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

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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
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.
- Oc 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.

13/18/5/6

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