		SIT	E INFORM	ATION						
		Report	Type: Clo	sure Rep	ort					
General Site Inf	ormation:	A CHARLES THE STATE OF THE STAT				PARTY CHARGE TO SERVE				
Site:	<u> </u>		al #11 Flow Lir							
Company:		COG Operati	COG Operating LLC							
Well Location		Unit F	Sec 29	T 17S	R 29E					
Spill Location		Unit L	. Sec 29	T 17S	R 29E					
Lease Number:		API-30-015-32								
County:		Eddy County								
Spill GPS			32.80492° N	•	<u> </u>	104.10145° W				
Surface Owner.		Federal								
Mineral Owner:						CR 212 for 0.2 miles, turn right and				
Directions:	· · · · · · · · · · · · · · · · · · ·	travel 1.6 miles				01. 2. 2. 101 0. 2. 111100, tulii 11g. 11 0. 12				
Release Data:::		8/28/2010		And the second s						
Type Release:		Produced Flui	Produced Fluid							
Source of Conta	mination:	Flowline failure	Flowline failure							
Fluid Released:		11 bbls								
Fluids Recovere		10 bbls								
Official Commu	nication: 🎉 🎎			THE TANK	Maria de Maria de Maria					
Name:	Pat Ellis				Ike Tavarez					
Company:	COG Operating,	LLC			Tetra Tech					
Address:	550 W. Texas Av				1910 N. Big S	pring				
P.O. Box					3 -					
City:	Midland Texas, 7	9701			Midland, Texa	S				
Phone number:	(432) 686-3023				(432) 682-455					
Fax:	(432) 684-7137				(.52) 552 100					
Email:	pellis@conchores	sources com	.= .		ike tavarez@	tetratech.com				

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
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	·
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0

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



RECEIVED FEB 0.6 2012 NMOCD ARTESIA

January 26, 2012

Mr. Mike Bratcher **Environmental Engineer Specialist** Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, New Mexico 88210

Re: Closure Report for the COG Operating LLC., Schley Federal #11 Flow line Spill, Unit L, Section 29, Township 17 South, Range 29 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Schley Federal #11 Flow line. The spill area is located in Unit L, Section 29, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.80492°, W 104.10145°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on August 28, 2010 and released approximately eleven (11) barrels of produced liquid from a flow line. To alleviate the problem, COG personnel repaired the flow line. Ten (10) barrels of standing fluids were recovered. The spill initiated and was contained south of a lease road, affecting an area approximately 25' X 50', with some overspray. The initial C-141 form is enclosed in Appendix C.

Groundwater

According to the Geology and Groundwater Resources of Eddy County, New Mexico (Report 3), one well is located in Section 29, with reported depth to water of 120' below surface. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 100' below surface. The Geology and Groundwater Resources of Eddy County, New Mexico (Report 3) well report data is shown in Appendix B.



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (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 September 14, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of three (3) auger holes (AH-1 through AH-3) were installed using a stainless steel hand auger to assess the impacted soils. Auger hole (AH-1) was installed in the spill area, where the fluids pooled and AH-2 and AH-3 in the overspray area. Select 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 results of the sampling are summarized in Table 1. The spill area and auger hole locations are shown on Figure 3.

Referring to Table 1, all the submitted samples were below RRAL for TPH and BTEX. Auger hole (AH-1) showed a chloride concentration of 4,670 mg/kg (0-1') and the area was not vertically defined. The remaining auger holes (AH-2 and AH-3) did not show an impact and had chloride concentrations below reporting limit of <200 mg/kg.

Closure Activities

Based on the approved work plan, Tetra Tech personnel supervised the excavation of the site on July 6, 2011 through July 8, 2011. The final excavation depths of the soil remediation were met or exceeded as requested by the OCD and BLM. A total of 740 cubic yards of soil were excavated and transported to a proper disposal facility. The excavation depths are highlighted in Table 1 and shown on Figure 4. The excavation was backfilled with clean soil to grade.



As recommended in the work plan, a backhoe was used to install a trench (T-1) by the leak source to delineate chloride impact in the area of AH-1. The confirmation sample results are shown in Table 1. Referring to Table 1, the chloride concentrations of T-1 declined with depth. As requested by the BLM, the west edge of the lease road was excavated 2.0' deep. The area measured approximately 3' x 260'. Additionally, at the request of the BLM, an area measuring approximately 20' x 120' was excavated 2.0' below surface in the pasture.

Based on the remedial activities performed, COG request closure of the site. A copy of the C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the remedial activities, please call me at (432) 682-4559.

Respectfully submitted,

TETRATECH

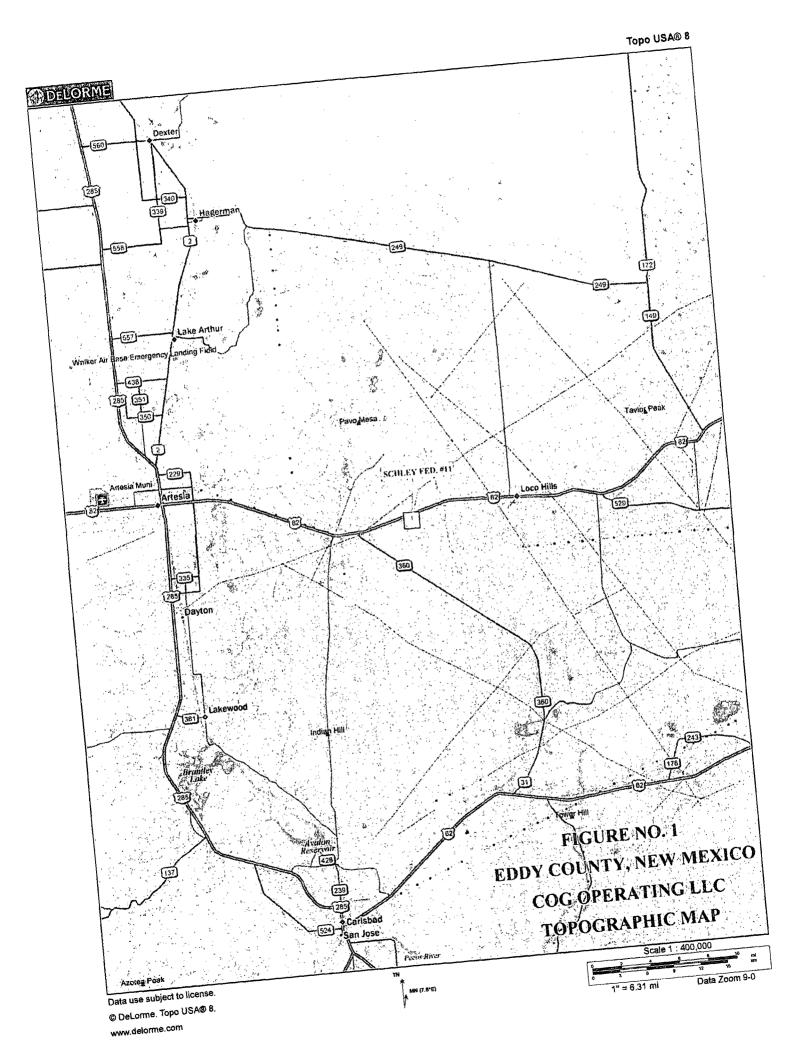
Ike Tavarez

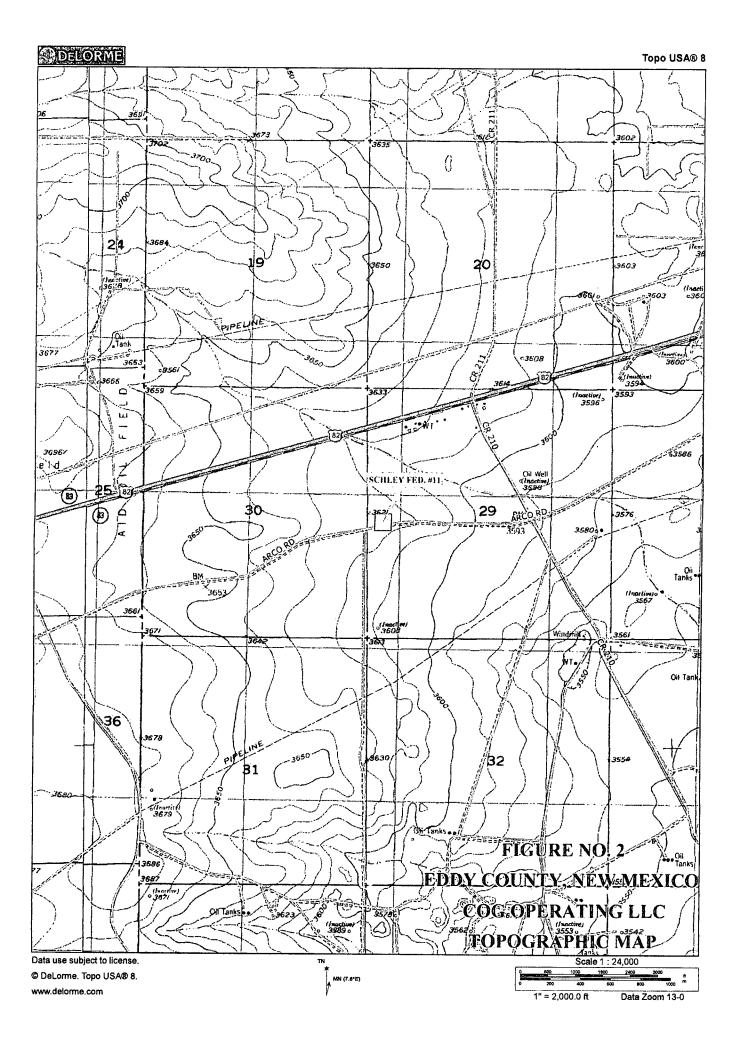
Project Manager

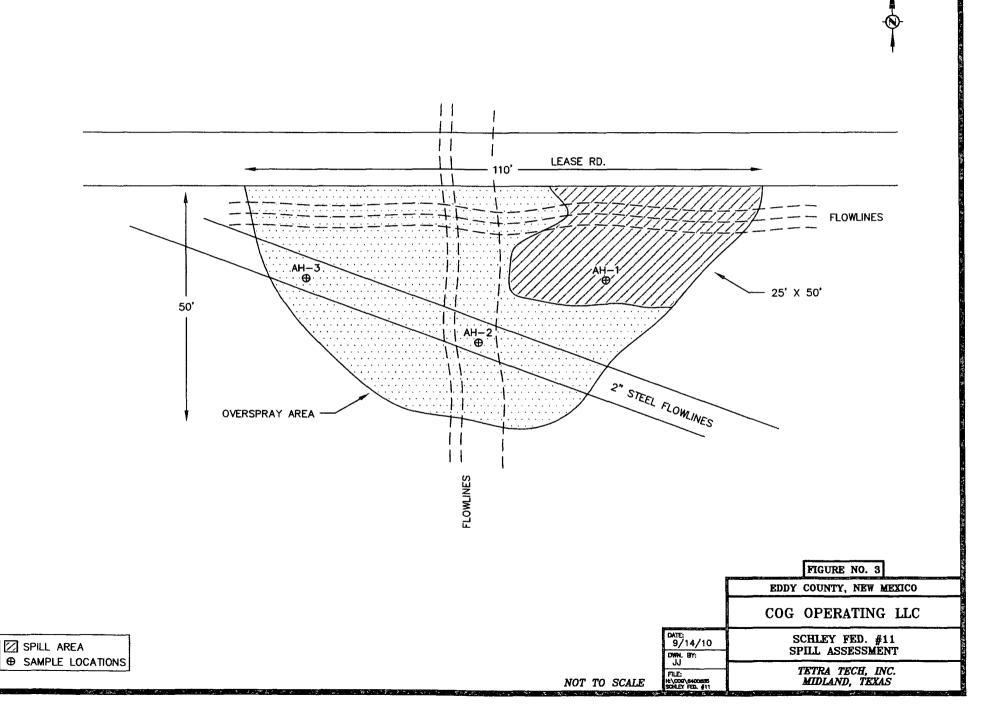
cc: Pat Ellis - COG

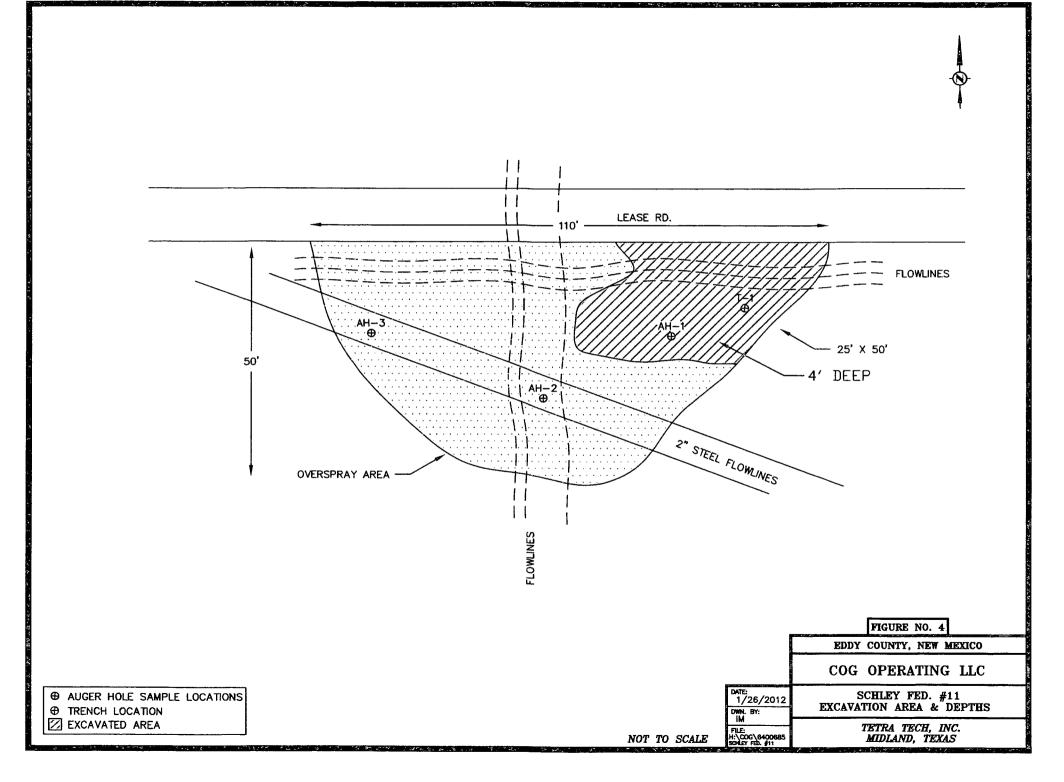
cc: Terry Gregston - BLM

Figures









Tables

Table 1 COG Operating LLC. SCHLEY FEDERAL #11

Eddy County, New Mexico

Sample	Sample	Sample	Depth	Soil		Toluene	Ethlybenzene	Xylene	Chloride				
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	9/14/2010	5-0-1			X	<2.00	·<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	4;670
T-1	7/7/2011	2'		Х		-	<u>-</u>	-	-	_	-	-	469
		4'		Х		-	-	-	-	-	-	-	973
		6'		Х		-	_	ı	-	_	-	_	248
		8'		Х		<u>-</u>	_	-	-	-	-		<200
AH-2	9/14/2010	0-1'		х		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
AH-3	9/14/2010	0-1'		Х		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200

BEB Below Excavation Bottom

(--) Not Analyzed

Excavated Material

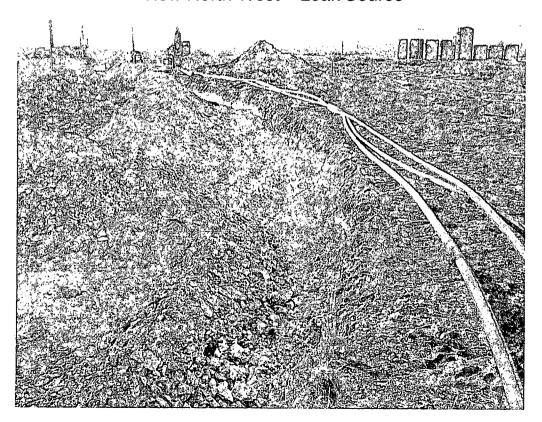
Photos

COG Operating LLC Schley Federal #11 Eddy County, New Mexico



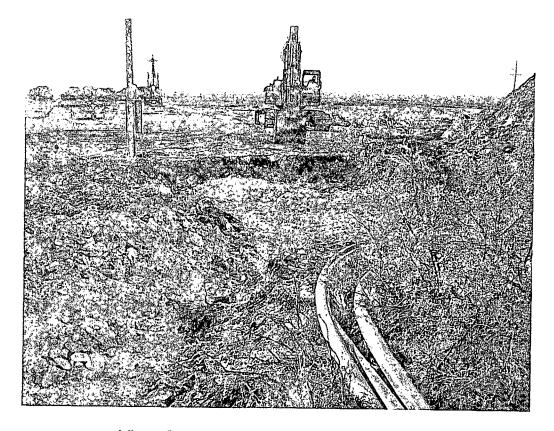


View North West - Leak Source



View South East - Lease Road

COG Operating LLC Schley Federal #11 Eddy County, New Mexico



View South East - End of Lease Road



View South East - Pasture

Appendix A

<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

Submit 2 Copies to appropriate District Office in accordance

with Rule 116 on back side of form

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

						OPERA	ΓOR		Initia	al Report	\boxtimes	Final	Report
Name of Co	mpany C	COG Operat	ting LLC			Contact Par	t Ellis						
Address 55	0 W. Texa	as, Suite 130	00 Midlaı	nd, Texas 79701		Telephone N	No. (432) 230-0	077					
Facility Nar	ne Schley	Federal #11				Facility Typ	e Flowline				_		
Surface Ow	ner: Feder	al		Mineral O	wner				Lease N	lo. API#30	-015-	32134	
				LOCA	TIO	N OF REI	LEASE						
Unit Letter F	Section 29	Township 17S	Range 29E	Feet from the		South Line	Feet from the	East/\	West Line	County	Edd	y	
	****		<u> </u>	Latitude 32	48.29	6 Longitu	de104 06.087	<u> </u>				· .	
				NAT	URE	OF RELI	EASE						
Type of Relea						Volume of	Release 11 bbls		Volume F	Recovered 1	0 bbls		
Source of Re	Source of Release: Flowline					Date and H 08/28/2010	lour of Occurrenc	е		Hour of Dise 0 9:00a.m			
Was Immedia	te Notice (If YES, To			00/20/201	7.004.111	·-		
			Yes 🛚	No 🛛 Not Re	quired								
By Whom?	By Whom?					Date and H	lour						
Was a Watero	Was a Watercourse Reached?					1	lume Impacting t	he Wate	ercourse.				
	☐ Yes ⊠ No					N/A							
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*	·									
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*									
back into serv	vice.			owline. The section	on of flo	owline that ru	ptured was replac	ed with	a new sect	ion and the t	flowlin	e was p	out
Describe Area	Affected :	and Cleanup A	Action Tak	en.*									
spills extent.	Soil that ex	ceeded RRAL	, was remo	n lease road and ba eved and hauled av d submitted it to N	vay for	proper dispos							
regulations al public health should their o	I operators or the envir perations h ment. In a	are required to ronment. The ave failed to a ddition, NMO	report an acceptance dequately (CD accept	is true and comple d/or file certain re e of a C-141 repor investigate and re tance of a C-141 re	lease no t by the mediate	otifications are NMOCD made contamination	nd perform correctarked as "Final Room that pose a three	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which eve the oper , surface wa	may en ator of ter, hu	ndanger Tiabilit man hea	y
		1, 6	/)			OIL CONS	SERV	ATION	DIVISIO	N		
Signature: Printed Name	: Ike Tavar	[] [ez //9)	ent	ful CE	,	Approved by District Supervisor:							
Title: Project	Manager					Approval Dat	e:		Expiration I	Date:			
E-mail Addre	ss: Ike.Tava			(420) (80) 1555		Conditions of Approval:			Attached				
Date: /- Attach Addit				(432) 682-4559									

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
1301 W. Grand Avenue, Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>
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 abmit 2 Copies to appropriate

Form C-141

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

Release Notification and Corrective Action

	OPERATOR	□ Initia	I Report				
Name of Company COG OPERATING LLC	Contact Pa	t Ellis	· · · · · · · · · · · · · · · · · · ·				
Address 550 W. Texas, Suite 100, Midland, TX 79701	Telephone No. 432-2	230-0077					
Facility Name Schley Federal #11	Facility Type Flo	owline					
Surface Owner Federal Mineral Owner		Lease N	o. API#30-015-32134				
LOCATIO	ON OF RELEASE						
Unit Letter Section Township Range Feet from the Nort	h/South Line Feet from the	East/West Line	County Eddy				
Latitude 32 48.296	Longitude 104 06.087						
NATURI	E OF RELEASE						
Type of Release Produced fluid	Volume of Release 11bbls	Volume R	ecovered 10bbls				
Source of Release Flowline	Date and Hour of Occurrence 08/28/2010	1	Bour of Discovery 0 - 9:00 a.m.				
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?						
By Whom?	Date and Hour						
Was a Watercourse Reached?							
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.*							
The cause of the release was due to a ruptured flowline. The section of back into service.	flowline that ruptured was replace	ed with a new section	on and the flowline was put				
Describe Area Affected and Cleanup Action Taken.*							
lnitially 11bbls of produced fluid was released from the flowline and we areas measured 3' x 40' along the roadway and the oversprayed area me condition. (The closest well location to the release is the Schley Federal any possible contamination from the release and we will present a remediation work.	asured 20' x 50'. The lease road l #3, API#30-015-30450). Tetra	has been scraped an Tech will sample th	d returned to previous ne spill site area to delineate				
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remediate the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform correct the NMOCD marked as "Final Re ate contamination that pose a thre	ive actions for release port" does not relie at to ground water,	uses which may endanger eve the operator of liability surface water, human health				
	OIL CONS	SERVATION I	DIVISION				
Signature:							
Printed Name: Josh Russo	Approved by District Superviso	r:					
Title: HSE Coordinator	Approval Date:	Expiration E	Pate:				
E-mail Address: jrusso@conchoresources.com	Conditions of Approval:		Attached				
Date: 09/08/2010 Phone: 432-212-2399							
Attach Additional Sheets If Necessary	1		L				

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG - Schley Federal #11 Eddy County, New Mexico

;			28 East			16.5	outh		29 East			16	South		30 Ea
	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2
3	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14
20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23
29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26
32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35
17 S	outh	2	28 East		I	17 S	outh	:	29 East		L	17	South		30 Ea
5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2
3	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
7	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14
20	21	22 79	23	24	19	20	21	22	23	24	19	20	21	22	23
29	28	27	26	25	30	1 .	28	27	26	25	30	29	28	27	26
32	33	34 53	35	36	31	32	33	34	35 153	36	31	32	33	34	35
18 S	outh	2	28 East			18 S	outh		29 East			18	South		30 E
5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2
3	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
7	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14
0	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23
9	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26
2	33	34	35 65	36	31	32	33	34	35	36	31	32	33	34	35
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 9 2 117 S	0 21 61 9 28 2 33 17 South 4 9 28 2 33 18 South 4 9 7 16 0 21 9 28 0 2 16 0 21 9 28 0 2 16 0 2 1 16 0	0 21 22 61 27 2 33 34 34 3 34 3 34 3 34 3 34 3 34	21	0 21 22 23 24 25 25 25 26 25 27 26 25 25 27 26 25 25 27 26 25 25 27 26 25 25 27 26 25 25 27 26 25 25 27 26 25 25 27 26 25 25 25 25 25 25 25 25 25 25 25 25 25	0 21 22 23 24 19 17 South 28 East 4 3 2 1 6 7 7 16 15 14 13 18 0 21 22 23 24 19 9 28 27 26 25 30 2 33 34 35 36 31 18 South 28 East 4 3 2 1 7 7 6 7 6 75 26 25 30 2 1 8 South 28 East 4 3 2 1 7 7 6 6 7 7 16 15 14 13 18 0 2 1 7 9 10 11 12 7 18 South 28 East 4 3 2 1 7 9 10 11 12 7 18 South 28 East 4 3 2 1 6 9 10 11 12 7 7 16 15 14 13 18 0 2 1 6 7 16 15 14 13 18 0 2 1 9 10 11 12 7 7 16 15 14 13 18	19 20 10 11 12 18 17 18 19 20 20 20 21 22 23 24 25 25 25 25 25 25 25	19	19	19 20 21 22 23 24 19 20 21 22 23 24 25 25 26 25 26 25 27 27 27 27 27 27 27	19	19	19	19 20 21 22 23 24 19 20 21 22 23 24 20 21 22 23 24 30 29 28 27 26 25 30 29	19 20 21 22 23 24 19 20 21 22 23 24 19 20 21 22 23 24 24 25 30 29 28 27 26 25 30 29 210 22 23 24 35 36 31 32 33 34 35 36 31 32 34 34 35 34 35 34 35 34 35 34

NMOCD - Groundwater Data

	WAT	TER LEVEL	YIELD (g.p.m.)						
Location Number	BELOW LAND SURFACE (feet)	DATE OF MEASUREMENT		METHOD OF LIFT	USE OF WATER	REMARKS			
17.28.2.240	27.6	Dec. 1, 1948	3	W	S	Depth to water measured while pumping.			
14.220	80	-	61	W	S & D	Driller: Cy Hinshaw. See analysis, Table 3.			
19.200	224.3	Dec. 2, 1948	1.2	W	S	Depth to water measured while pump- ing.			
22.230	4 5.5	Dec. 1, 1948	_	N	N	Abandoned stock well.			
17.29.22.110	79.7	Nov. 29, 1948	3 E.	W	S	Depth to water measured while pumping.			
29.400	210	Dec. 3, 1948	1.1	w	S	do.			
17.31.34.000	271 +	Dec. 6, 1948	3.5	W	Š	do. See analysis, Table 3.			
18.21.13.310	505 '		10 R.	W	S & D	Formerly C.C.C. well. Cased to 30 ft.			
27.440	530	_	_	W	S	Cased to 120 ft.			
32.430	800 (?)	-	12 R.	w	S & D	Lowered cylinder 5 ft. in 1948 because water level declined. Cased to 380 ft.			
18.23.6.140	440	Jan. 12, 1950		W	S & D				
18.25.23.111	117.8	Jan. 1950		W	Š				

See explanation at beginning of table.

1 Measured Dec. 3, 1948.

Appendix C

Page Number: 1 of 2

Summary Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street Midland, TX 79705

Report Date: July 14, 2011

Work Order: 11070823

Project Location: Eddy Co., NM

Project Name:

COG/Schley Federal #11

Project Number: 114-6400685

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
271510	T-1 2'	soil	2011-07-07	00:00	2011-07-08
271511	T-1 4'	soil	2011-07-07	00:00	2011-07-08
271512	T-1 6'	soil	2011-07-07	00:00	2011-07-08
271513	T-1 8'	soil	2011-07-07	00:00	2011-07-08

Sample: 271510 - T-1 2'

Param	Flag	Result	Units	RL
Chloride		469	mg/Kg	4

Sample: 271511 - T-1 4'

Param	Flag	Result	Units	RL
Chloride		973	mg/Kg	4

Sample: 271512 - T-1 6'

Param	Flag	Result	Units	RL
Chloride		248	mg/Kg	4

Sample: 271513 - T-1 8'

Report Date: July 14, 2011 Work Order: 11070823 Page Number: 2 of 2

Param	Flag	Result	${f Units}$	RL
Chloride		<200	mg/Kg	4



6701 Aberdeen Avenue, Suite 9 200 East Sonset Road, Suite E 5002 Basin Street, Suite AT 6015 Harris Parkway, Suite 110

El Paso, Texas 79922 Midland, Texas 79703 ft Worth, Texas 76132 888 • 588 • 3443

915 • 585 • 3443 432 • 689 • 6301

FAX 915 • 585 • 4944 TAX 432 • 589 • 6313

817 • 201 • 5260

E-Mail: tab@traceanalysis.com

Certifications

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

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: July 14, 2011

Work Order:

11070823

Project Location: Eddy Co., NM

Project Name:

COG/Schley Federal #11

Project Number:

114-6400685

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
271510	T-1 2'	soil	2011-07-07	00:00	2011-07-08
271511	T-1 4'	soil	2011-07-07	00:00	2011-07-08
271512	T-1 6'	soil	2011-07-07	00:00	2011-07-08
271513	T-1 8'	soil	2011-07-07	00:00	2011-07-08

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

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

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

Report Contents

Case Narrative	3
Analytical Report	4
Sample 271510 (T-1 2')	
Sample 271511 (T-1 4')	4
Sample 271512 (T-1 6')	4
Sample 271513 (T-1 8')	4
Method Blanks	6
QC Batch 83005 - Method Blank (1)	6
Laboratory Control Spikes	7
QC Batch 83005 - LCS (1)	7
QC Batch 83005 - LCS (1)	7
Calibration Standards	8
QC Batch 83005 - ICV (1)	8
QC Batch 83005 - CCV (1)	8
Appendix	9
Laboratory Certifications	9
Standard Flags	
Attachments	

Case Narrative

Samples for project COG/Schley Federal #11 were received by TraceAnalysis, Inc. on 2011-07-08 and assigned to work order 11070823. Samples for work order 11070823 were received intact at a temperature of 33.8 C.

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

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	70469	2011-07-12 at 08:43	83005	2011-07-13 at 15:17

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 11070823 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.

Samples not on ice.

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: July 14, 2011 114-6400685

Work Order: 11070823 COG/Schley Federal #11

Analytical Report

Sample: 271510 - T-1 2'

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 83005 Analytical Method:

SM 4500-Cl B

Prep Method: N/A

Page Number: 4 of 9

Eddy Co., NM

Prep Batch: 70469 Date Analyzed: Sample Preparation:

2011-07-13 2011-07-12

Analyzed By: ARPrepared By:

RL

Parameter Flag Cert Result Units Dilution RL4.00 Chloride 469 mg/Kg 100

Sample: 271511 - T-1 4'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 83005

Analytical Method: Date Analyzed:

SM 4500-Cl B

Prep Method: N/A Analyzed By: AR

Prep Batch:

70469

2011-07-13 Sample Preparation: 2011-07-12

Prepared By: AR

RL

Cert Result Dilution RLParameter Flag Units Chloride 973 mg/Kg 100 4.00

Sample: 271512 - T-1 6'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 83005 Prep Batch: 70469

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2011-07-13 2011-07-12

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

RL

Flag Parameter Cert Result Units Dilution RLChloride 248 4.00 mg/Kg 50

Page Number: 5 of 9 Report Date: July 14, 2011 Work Order: 11070823 114-6400685 COG/Schley Federal #11Eddy Co., NM Sample: 271513 - T-1 8' Laboratory:Midland Prep Method: N/A Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B QC Batch: 83005 Date Analyzed: 2011-07-13 Analyzed By: AR Prep Batch: 70469 Sample Preparation: 2011-07-12 Prepared By: AR RLDilution RLCert Result Units Parameter Flag <200 4.00 Chloride mg/Kg 50

Report Date: July 14, 2011

114-6400685

Work Order: 11070823 COG/Schley Federal #11 Page Number: 6 of 9 Eddy Co., NM

Method Blanks

Method Blank (1)

QC Batch: 83005

QC Batch: Prep Batch: 70469

83005

Date Analyzed:

2011-07-13

Analyzed By: AR

QC Preparation: 2011-07-12 Prepared By: AR

MDL

 Cert Result Units RLParameter Flag Chloride < 3.85 mg/Kg 4

Report Date: July 14, 2011 114-6400685

Work Order: 11070823 COG/Schley Federal #11 Page Number: 7 of 9 Eddy Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:

Date Analyzed:

2011-07-13

Analyzed By: AR

Prep Batch:

Chloride

70469

QC Preparation: 2011-07-12

96.5

Prepared By: AR

			LCS
Param	\mathbf{F}	\mathbf{C}	Result

Spike Matrix Units Dil. Amount Result mg/Kg 100 < 3.85

Rec. Limit Rec.

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			102	mg/Kg	1	100	< 3.85	102	85 - 115	6	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: 271519

QC Batch:

83005

Date Analyzed:

2011-07-13

Analyzed By: AR

Prep Batch: 70469

QC Preparation: 2011-07-12

Prepared By: AR

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			14700	mg/Kg	100	10000	5110	96	80 - 120

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			15000	mg/Kg	100	10000	5110	99	80 - 120	2	20

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

Report Date: July 14, 2011

114-6400685

Work Order: 11070823 COG/Schley Federal #11 Page Number: 8 of 9 Eddy Co., NM

Calibration Standards

Standard (ICV-1)

QC Batch: 83005

Date Analyzed: 2011-07-13

Analyzed By: AR

				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2011-07-13

Standard (CCV-1)

QC Batch: 83005

Date Analyzed: 2011-07-13

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	99.4	99	85 - 115	2011-07-13

Appendix

Laboratory Certifications

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

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- 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.

Analysis Request of Chain of Custody Record PAGE: **ANALYSIS REQUEST** (Circle or Specify Method No.) TETRA TECH Se Se (Ext. to C35) 1910 N. Big Spring St. 윤 Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946 Ö CLIENT NAME: SITE MANAGER: **PRESERVATIVE** NUMBER OF CONTAINERS COG ILe Tavarez METHOD PROJECT NO.: PROJECT NAME: GC.MS Semi. Vol. 8
PCB's 8080/608
Pest. 808/608
Chlofde
Gamma Spec. 114-6400685 FILTERED (Y/N) LAB I.D. MATRIX DATE TIME COMP. SAMPLE IDENTIFICATION ICE NONE GRAB NUMBER 2011 2715701 7.7 T-1 511 512 T-1 RECEIVED BY: (Signature) SAMPLED BY: (Print & Initial) Time:

SAMPLE SHIPPED BY: (Circle) AIRBILL #: Time: OTHER: HAND DELIVERED UPS RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) TETRA TECH CONTACT PERSON: Results by: RECEIVING LABORATORY: Tour RECEIVED BY: (Signature) **RUSH Charges** Ile Tavaro7 CITY: _____ ZIP: SAMPLE CONDITION WHEN RECEIVED: REMARKS:

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

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: September 27, 2010

Work Order: 10091629

Project Location: Eddy County, NM

Project Name: COG/Schley Federal #11

Project Number: 114-6400685

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
244825	AH-1 0-11	soil	2010-09-14	00:00	2010-09-16
244826	AH-2 0-1	soil	2010-09-14	00:00	2010-09-16
244827	AH-3 0-1	soil	2010-09-14	00:00	2010-09-16

	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)
244825 - AH-1 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00
244826 - AH-2 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	< 2.00
244827 - AH-3 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00

Sample: 244825 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		4670	mg/Kg	4.00

Sample: 244826 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		< 200	mg/Kg	4.00

Sample: 244827 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909 **NELAP Certifications**

Lubbock:

T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003 Kansas E-10317 LELAP-02002

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: September 27, 2010

Work Order: 10091629

Project Location: Eddy County. NM Project Name: COG/Schley Federal #11

Project Number: 114-6400685

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
244825	AH-1 ()-1'	soil	2010-09-14	00:00	2010-09-16
244826	AH-2 0-1'	soil	2010-09-14	00:00	2010-09-16
244827	AH-3 0-1	soil	2010-09-14	00:00	2010-09-16

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

Dr. Michael Abel, Project Manager

Standard Flags

 $\, B \,$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project COG/Schley Federal #11 were received by TraceAnalysis, Inc. on 2010-09-16 and assigned to work order 10091629. Samples for work order 10091629 were received intact at a temperature of 3.8 C.

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

		Prep	Prep	$_{ m QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	63249	2010-09-21 at 16:00	73738	2010-09-21 at 22:53
Chloride (Titration)	SM 4500-Cl B	63252	2010-09-22 at 08:46	73783	2010-09-23 at 09:53
TPH DRO - NEW	S 8015 D	63137	2010-09-16 at 15:21	73586	2010-09-16 at 15:21
TPH GRO	S 8015 D	63249	2010-09-21 at 16:00	73737	2010-09-21 at 23:20

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 10091629 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.

114-6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 3 of 13 Eddy County, NM

Analytical Report

Sample: 244825 - AH-1 0-1'

Laboratory:

Midland Analysis: BTEX QC Batch: 73738 Prep Batch: 63249

Analytical Method: Date Analyzed: Sample Preparation:

S 8021B 2010-09-21 2010-09-21 Prep Method: S 5035 \overline{AG}

Analyzed By: Prepared By: AG

RL

Parameter	Flag	Result	Units	Dilution	RL
Benzene	CONTRACTOR OF THE PROPERTY OF	< 0.0200	mg/Kg	1	0.0200
Toluene		< 0.0200	m mg/Kg	l	0.0200
Ethylbenzene		< 0.0200	m mg/Kg	1	0.0200
Xylene		< 0.0200	mg/Kg	1	0.0200

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.13	mg/Kg	1	2.00	106	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.11	mg/Kg	1	2.00	106	38.4 - 157

Sample: 244825 - AH-1 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 73783 Prep Batch: 63252

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-09-23 Sample Preparation: 2010-09-22

Prep Method: N/A Analyzed By: AR

Prepared By: AR

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		4670	mg/Kg	100	4.00

Sample: 244825 - AH-1 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW QC Batch: 73586 Prep Batch: 63137

Analytical Method: Date Analyzed:

S 8015 D 2010-09-16 Sample Preparation: 2010-09-16

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

RL

Parameter	Flag	Result	Units	Dilution	RL
DRO		< 50.0	mg/Kg	.1	50.0

114-6400685

Surrogate

Trifluorotoluene (TFT)

4-Bromofluorobenzene (4-BFB)

Work Order: 10091629COG/Schley Federal #11 Page Number: 4 of 13 Eddy County, NM

Recovery

Limits

52.8 - 137

38.4 - 157

Percent

Recovery

104

101

Spike

Amount

2.00

2.00

				****	.,	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dil	ution	Amount	Recovery	Limits
n-Tricosane		101	mg/Kg		1	100	101	70 - 130
Sample: 244	1825 - AH-1 0	"1 ′						
•		*						
Laboratory:	Midland TPH GRO		Analytical	Mathada	S 8015 D		Prep Met	hod: S 5035
Analysis: QC Batch:	73737		Date Anal		2010-09-21		Analyzed	
Prep Batch:	63249		Sample Pr	"			Prepared	
1 rep baten.	05243		Sample 11	charamon.	2010-03-21		rrepareu	by. Ad
			RL					
Parameter	Fl	ag	Result		Units]	Dilution	RL
GRO	······································	<u> </u>	< 2.00		mg/Kg		1	2.00

					wa	Spike	Percent	Recovery
Surrogate	- COLD TO STATE OF THE STATE OF	Flag	Result	Units	Dilution		Recovery	Limits
Trifluorotolue		***	1.86	mg/Kg	1	2.00	93	48.5 - 152
4-Bromofluor	obenzene (4-BF	R)	1.50	mg/Kg	1	2.00	75	42 - 159
Sample: 244	1826 - AH-2 0	-1,						
-		- 1						
Laboratory: Analysis:	Midland BTEX		Analytical 3	Mathadi	S 8021B		Prep Metl	hod: S-5035
QC Batch:	73738		Date Analy		2010-09-21		Analyzed	
Prep Batch:	63249		Sample Pre		2010-09-21		Prepared	
r rep baten.	00249		Sample 1 10	paration.	2010-05-21		теракен	by. AG
			RL					
Parameter	I	Flag	Result		Units	D	ilution	RL
Benzene			< 0.0200		mg/Kg		1	0.0200
Toluene			< 0.0200		mg/Kg		.1.	0.0200
Ethylbenzene			< 0.0200		mg/Kg		1	0.0200
Xylene			< 0.0200		mg/Kg		1	0.0200

Result

2.09

2.02

Flag

Units

mg/Kg mg/Kg

Dilution

1

1

114-6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 5 of 13 Eddy County, NM

Sample: 244826 - AH-2 0-1'

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 73783 Prep Batch: 63252 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B

2010-09-23 2010-09-22

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

RL

Parameter Chloride

Flag Result < 200

Units mg/Kg Dilution

50

RL

4.00

Sample: 244826 - AH-2 0-1'

Laboratory:

Midland

Analysis:

TPH DRO - NEW

QC Batch: 73586 Prep Batch: 63137

Analytical Method: Date Analyzed:

S 8015 D

2010-09-16 2010-09-16

Prep Method: N/A

Analyzed By: kg Prepared By: kg

RL

Parameter Flag DRO

Result Units < 50.0 mg/Kg

Sample Preparation:

Dilution ī

50.0

RL

2.00

Spike Percent Recovery Result Units Dilution Surrogate Flag Amount Recovery Limits n-Tricosane 103 100 mg/Kg 103 70 - 130

Sample: 244826 - AH-2 0-1'

Laboratory:

Midland

Analysis: QC Batch: Prep Batch:

GRO

TPH GRO

73737 63249

Analytical Method: Date Analyzed:

< 2.00

Sample Preparation:

S 8015 D

2010-09-21

Prep Method: S 5035 Analyzed By: AG

2010-09-21

Prepared By:

AG

Parameter

RLFlag Result

Units mg/Kg Dilution RL

Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits Trifluorotoluene (TFT) 1.80 mg/Kg 1 2.00 90 48.5 - 152 4-Bromofluorobenzene (4-BFB) 1.46 I mg/Kg 2.00 73 42 - 159

Report Date: September 27, 2010 114-6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 6 of 13 Eddy County, NM

Sampl	e:	244827	- A	$^{ m LH-3}$	0-1
-------	----	--------	-----	--------------	-----

Laboratory:	Midland
Amstraios	RTEY

Analysis: QC Batch: 73738 Prep Batch: 63249

S 8021B Analytical Method: 2010-09-21 Date Analyzed: Sample Preparation: 2010-09-21 Prep Method: S 5035 Analyzed By: AGPrepared By: AG

RL

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.18	mg/Kg	1	2.00	109	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.16	${ m mg/Kg}$	1	2.00	108	38.4 - 157

Sample: 244827 - AH-3 0-1'

Midland Laboratory:

Analysis: Chloride (Titration) QC Batch: 73783 Prep Batch: 63252

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-09-23 Sample Preparation: 2010-09-22

Prep Method: N/A

Analyzed By: ARPrepared By: AR

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 244827 - AH-3 0-1'

Laboratory: Midland

TPH DRO - NEW Analysis: QC Batch: 73586 Prep Batch: 63137

Analytical Method: Date Analyzed:

S 8015 D 2010-09-16 Sample Preparation: 2010-09-16 Prep Method: N/A Analyzed By: kg kg Prepared By:

RL

Parameter	Flag	Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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

114-6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 7 of 13 Eddy County, NM

Sample: 244827 - AH-3 0-11

Laboratory: Midland

Analysis: TPH GRO QC Batch: 73737 Prep Batch: 63249

Analytical Method: S 8015 D Date Analyzed: 2010-09-21 Sample Preparation: 2010-09-21

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

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		< 2.00	mg/Kg	ı	2.00

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.92	mg/Kg	I	2.00	96	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	1	2.00	78	42 - 159

Method Blank (1)

QC Batch: 73586

QC Batch: 73586 Prep Batch: 63137 Date Analyzed: 2010-09-16 QC Preparation: 2010-09-16 Analyzed By: kg Prepared By: kg

MDL

Parameter	Flag	Result	Units	RL
DRO		<14.5	ıng/Kg	50

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		95.5	mg/Kg	1	100	96	70 - 130

Method Blank (1)

QC Batch: 73737

QC Batch: 73737 Prep Batch: 63249

GRO

Date Analyzed: 2010-09-21 QC Preparation: 2010-09-21 Analyzed By: AG Prepared By: AG

Parameter

Flag

MDL Result Units RL<1.65 mg/Kg

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.80	mg/Kg	1	2.00	90	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	2.00	54	52.4 - 130

Report Date: Septem 114-6400685	ber 27, 2010		Work Order: 10091629 COG/Schley Federal #11				1.0				
Method Blank (1)	QC Batch:	: 73738									
QC Batch: 73738			Date Analy	vzed:	2010-09	9-21		Ana	lyzed By:	\overline{AG}	
Prep Batch: 63249			QC Prepar	•	2010-09				pared By:	$\overline{\mathrm{AG}}$	
1			• .					·			
					MDL						
Parameter	Fl	ag			esult		Unit			RL	
Зепzене					.0150		mg/F			0.02	
Foluene					10950		mg/F			0.02	
Ethylbenzene					.0106		mg/F	-		0.02	
(ylene			-	<0.0	00930	aunal Anton ha a sadunahi, a suara nihati, hinn bada a	mg/F	(g		0.02	
Surrogate		Flag	Result	Units	s D	ilution	Spike Amount	Percent Recovery		overy mits	
frifluorotoluene (TF7		* 105	2.04	mg/K		1	2.00	102		i - 122	
1-Bromofluorobenzene	•		1.53	mg/K		1	2.00	76		- 132	
Method Blank (1)	QC Batch:	73783									
	•										
QC Batch: 73783	·		Date Analy		2010-09				yzed By:	AR	
QC Batch: 73783	·		Date Analy QC Prepar		2010-09 2010-09				yzed By: ared By:	AR AR	
QC Batch: 73783	·		,	ration:	2010-09						
QC Batch: 73783 Prep Batch: 63252			,	ration: ME	2010-09 DL		l'inits	Prep		AR	
QC Batch: 73783	Flaq		,	ration:	2010-09 OL alt		Units ing/K	Ргер			
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride	Flag	g' 5	,	ration: ME Resu	2010-09 OL alt			Ргер		AR RL	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro	Flag	g' 5	QC Prepar	ME Resu	2010-09 DL alt 18)-22		Prep g	ared By:	AR RL 4	
QC Batch: 73783 Prep Batch: 63252 Parameter Thloride Laboratory Contro QC Batch: 73586	Flag	g' 5	QC Prepar	ME Resu <2.	2010-09 DL alt 18	9-16		Prep g Ana	ared By:	AR RL 4	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586	Flag	g' 5	QC Prepar	ME Resu <2.	2010-09 DL alt 18	9-16		Prep g Ana	ared By:	AR RL 4	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586	Flag	g' 5	QC Prepar Date Anal QC Prepa	ME Resu <2.	2010-09 DL alt 18	9-16		Prep g Ana	ared By:	AR RL 4	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137	Flag	g -1)	QC Prepar Date Anal QC Prepar	Ation: ME Resu <2. yzed: ration:	2010-09 DL alt 18	9-16 9-16	ing/K	Prep g Ana	ared By:	AR RL 4	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137	Flag	g -1) LCS	QC Prepar Date Anal QC Prepar	Ation: ME Resu <2. yzed: ration:	2010-09 DL alt 18 2010-09 2010-09	9-16 9-16 Spike	ıng/K Matrix	Prep g Ana Prej	ared By: alyzed By pared By Lin	AR RL 4	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586	Flag	g -1) LCS Resul 240	QC Prepar Date Anal QC Prepar t Uni	Action: ME Resu <2. yzed: ration: ts Kg	2010-09 DL alt 18 2010-09 2010-09 Dil. 1	9-16 9-16 Spike Amount 250	Matrix Result <14.5	Prep g Ana Prej Rec. 96	ared By: alyzed By pared By Lin	AR RL 4 kg kg cc. nit	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137 Param DRO	Flag	g -1) LCS Resul 240	QC Prepar Date Anal QC Prepar t Uni	Action: ME Resu <2. yzed: ration: ts Kg	2010-09 DL alt 18 2010-09 2010-09 Dil. 1	9-16 9-16 Spike Amount 250	Matrix Result <14.5	Prep g Ana Prej Rec. 96	ared By: alyzed By pared By Lin	AR RL 4 kg kg cc. nit	
Prep Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137 Param DRO Percent recovery is ba	Flag	LCS Resul 240 te result.	Date Anal QC Prepar t Uni mg/ RPD is bas	Action: ME Resu <2. yzed: ration: ts Kg ed on th	2010-09 DL alt 18 2010-09 2010-09 Dil. 1 he spike Amount	9-16 9-16 Spike Amount 250 and spike d Matrix Result	Matrix Result <14.5 uplicate res	Prep Rec. 96 Sult. Rec. Limit	ared By: alyzed By pared By Lin	RL 4 kg kg kg ec. nit 133.4	
Prep Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137 Param DRO Percent recovery is ba	Flag	LCS Resul 240 re result.	Date Anal QC Prepar t Uni mg/ RPD is bas	Action: ME Resu <2. yzed: ration: ts Kg ed on th	2010-09 DL alt 18 2010-09 2010-09 Dil. 1 he spike Spike	9-16 9-16 Spike Amount 250 and spike d Matrix	Matrix Result <14.5 uplicate res	Prep Ana Prep Rec. 96 sult. Rec.	ared By: alyzed By pared By Lit 57.4 -	RL 4 kg kg ec. nit 133.4	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137 Param DRO	Flag Spike (LCS- sed on the spikes	LCS Result 240 re result. LCSD Result 256 re result.	Date Anal QC Prepar t Uni mg/ RPD is bas Units mg/Kg	ration: ME Resu <2. yzed: ration: ts Kg ed on tl Dil. A	2010-09 DL alt 18 2010-09 2010-09 Dil. 1 he spike Spike Amount 250	9-16 9-16 Spike Amount 250 and spike d Matrix Result <14.5 and spike d	Matrix Result <14.5 uplicate res Rec. 102 57 uplicate res	Prep Rec. 96 sult. Rec. Limit .4 - 133.4	ared By: Alyzed By: Recommend By: Recommend By: RPD	RL 4 kg kg rec. mit 133.4 RPD Limit	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137 Param DRO Percent recovery is batch: Param DRO Percent recovery is batch: Param	Flag	LCS Result 240 LCSD Result 256 te result.	Date Anal QC Prepared to Unit mg/RPD is base Units mg/Kg RPD is base	yzed: ration: ME Resu <2. yzed: ration: ts Kg ed on tl Dil. A 1 ed on tl	2010-09 DL alt 18 2010-09 2010-09 Dil. 1 he spike Spike Amount 250 he spike	9-16 9-16 Spike Amount 250 and spike d Matrix Result <14.5	Matrix Result <14.5 uplicate res Rec. 102 57	Prep Rec. 96 sult. Rec. Limit .4 - 133.4	ared By: Alyzed By pared By Re Lit 57.4 - RPD 6	RL 4 kg kg cc. nit 133.4 RPD Limit 20	
QC Batch: 73783 Prep Batch: 63252 Parameter Chloride Laboratory Contro QC Batch: 73586 Prep Batch: 63137 Param DRO Percent recovery is ba Param DRO	Flag Spike (LCS- sed on the spikes	LCS Result 240 re result. LCSD Result 256 re result.	Date Anal QC Prepar t Uni mg/ RPD is bas Units mg/Kg	yzed: ration: ME Resu <2. yzed: ration: ts Kg ed on tl Dil. A 1 ed on tl	2010-09 DL alt 18 2010-09 2010-09 Dil. 1 he spike Spike Amount 250	9-16 9-16 Spike Amount 250 and spike d Matrix Result <14.5 and spike d	Matrix Result <14.5 uplicate res Rec. 102 57 uplicate res	Prep Rec. 96 sult. Rec. Limit 4 - 133.4 sult.	ared By: Alyzed By pared By Re Lit 57.4 - RPD 6	RL 4 kg kg rec. nit 133.4 RPD Limit 20	

114-6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 9 of 13 Eddy County, NM

Laboratory Control Spike (LCS-1)

QC Batch: 7 Prep Batch: 6

73737 63249 Date Analyzed:

2010-09-21

QC Preparation: 2010-09-21

Analyzed By: AG

Prepared By: AG

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	15.4	mg/Kg	1	20.0	< 1.65	77	69.9 - 95.4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	14.7	mg/Kg	1	20.0	< 1.65	74	69.9 - 95.4	5	20

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

	LCS	LCSD			Spike	LCS	LCSD	${ m Rec.}$
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Triffuorotoluene (TFT)	1.94	1.85	mg/Kg	1	2.00	97	92	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.70	1.64	$_{ m mg/Kg}$	1	2.00	85	82	65.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch:

73738

Date Analyzed:

2010-09-21

Analyzed By: AG Prepared By: AG

Prep Batch: 63249 QC Preparation: 2010-09-21

LCS Matrix Spike Rec. Param Result Units Dil. Amount Result Limit Rec. Benzene 2.05mg/Kg 2.00 < 0.0150 102 81.9 - 108 Toluene 2.04 mg/Kg 1 2.00< 0.00950 102 81.9 - 107 78.4 - 107 Ethylbenzene 2.07 mg/Kg 1 2.00< 0.0106 104 79.1 - 107 Xylene 6.21mg/Kg 1 6.00< 0.00930 104

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.07	mg/Kg	1	2.00	< 0.0150	104	81.9 - 108	.L	20
Toluene	2.06	mg/Kg	1	2.00	< 0.00950	103	81.9 - 107	1	20
Ethylbenzene	2.09	mg/Kg	1	2.00	< 0.0106	104	78.4 - 107	1	20
Xylene	6.32	mg/Kg	1	6.00	< 0.00930	105	79.1 - 107	2	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)	1.99	2.09	mg/Kg	1	2.00	100	104	70.2 - 114
4-Bromofluorobenzene (4-BFB)	2.30	2.35	m mg/Kg	1	2.00	115	118	69.8 - 121

114-6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 10 of 13 Eddy County, NM

Laboratory Control Spike (LCS-1)

QC Batch: 73783 Prep Batch: 63252 Date Analyzed: 2010-09-23 QC Preparation: 2010-09-22 Analyzed By: AR Prepared By: AR

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	97.3	mg/Kg	<u> </u>	100	< 2.18	97	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	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	102	mg/Kg	Ĺ	100	< 2.18	102	85 - 115	5	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: 244915

QC Batch: 73586 Prep Batch: 63137 Date Analyzed: 2010-09-16 QC Preparation: 2010-09-16 Analyzed By: kg Prepared By: kg

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	202	mg/Kg	<u> </u>	250	<14.5	81	35.2 - 167.1

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	209	mg/Kg	1	250	<14.5	84	35.2 - 167.1	3	20

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
n-Tricosane	95.1	95.2	mg/Kg	1	100	95	95	70 - 130

Matrix Spike (MS-1) Spiked Sample: 244875

QC Batch: 73737 Prep Batch: 63249 Date Analyzed: 2010-09-21 QC Preparation: 2010-09-21 Analyzed By: AG Prepared By: AG

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	16.3	mg/Kg	1	20.0	<1.65	82	61.8 - 114

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

114-6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 41 of 13 Eddy County, NM

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	16.8	mg/Kg	1.	20.0	< 1.65	84	61.8 - 114	3	20

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)	2.09	1.96	mg/Kg	1	2	104	98	50 - 162
4-Bromofluorobenzene (4-BFB)	2.03	1.87	$_{ m mg/Kg}$	1	2	102	94	50 - 162

Matrix Spike (MS-1) Spiked Sample: 244827

QC Batch: Prep Batch: 63249

73738

Date Analyzed: QC Preparation: 2010-09-21

2010-09-21

Analyzed By: AG Prepared By: AG

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	${ m Rec.}$	Limit
Benzene	2.05	mg/Kg	1	2.00	< 0.0150	102	80.5 - 112
Toluene	2.09	mg/Kg	1	2.00	< 0.00950	104	82.4 - 113
Ethylbenzene	2.22	mg/Kg	1	2.00	< 0.0106	111	83.9 - 114
Xylene	6.60	mg/Kg	1	6.00	< 0.00930	110	84 - 114

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

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1	2.28	mg/Kg	1	2.00	< 0.0150	114	80.5 - 112	11	20
Toluene	2	2.32	mg/Kg	1	2.00	< 0.00950	116	82.4 - 113	10	20
Ethylbenzene	3	2.49	mg/Kg	1	2.00	< 0.0106	124	83.9 - 114	12	20
Xylene	-1	7.39	mg/Kg	1	6.00	< 0.00930	123	84 - 114	11	20

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)	5	2.04	2.44	mg/Kg	1	2	102	122	41.3 - 117
4-Bromofluorobenzene (4-BFB)	6	2.43	2.80	ıng/Kg	1	2	122	140	35.5 - 129

Spiked Sample: 244834 Matrix Spike (MS-1)

QC Batch: 73783 Prep Batch: 63252 Date Analyzed:

2010-09-23 QC Preparation: 2010-09-22

Analyzed By: AR Prepared By: AR.

¹MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

²MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

³MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

⁴MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

⁵High surrogate recovery due to peak interference.

⁶High surrogate recovery due to peak interference.

Work Order: 10091629

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114-6400685

COG/Schley Federal #11

			vIS			Spike		trix		Rec.
Param			esult	Units	Dil.	Amount			ec.	Limit
Chloride		10	100	mg/Kg	100	10000	<:	?18 I	01	85 - 115
Percent rec	overy is base	d on the spike result	. RPD is	based on	the spike a	nd spike duj	olicate r	esult.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Chloride		10300	mg/K	g 100	10000	<218	103	85 - 115	2	20
Percent rec	overy is base	d on the spike result	. RPD is	based on	the spike a	nd spike dup	olicate r	esult.		
Standard	(CCV-1)									
QC Batch:	73586		Date A	analyzed:	2010-09-10	6		Ai	nalyzed	By: kg
			CCVs	CC	Vs	CCVs		Percent		
			True	Fou		Percent	1	Recovery		Date
Param	Flag	Units	Conc.	Cor	ac.	Recovery		Limits	A	nalyzed
DRO		mg/Kg	250	21	4	86		80 - 120	20	10-09-16
Standard	(CCV-2)									
QC Batch:	73586		Date A	analyzed:	2010-09-10	5		Aı	nalyzed	By: kg
			CCVs	CC	Vs	CCVs		Percent		
			True	Fou	nd	Percent	1	Recovery		Date
Param	Flag	Units	Conc.	Cor		Recovery		Limits		nalyzed
DRO		mg/Kg	250	25	3	101		80 - 120	20	10-09-16
Standard	(CCV-1)									
QC Batch:	73737		Date A	nalyzed:	2010-09-21			Ana	alyzed E	By: AG
			CCVs	CC	Vs	CCVs		Percent		
			True	Fou	nd	Percent	I	Recovery		Date
Param	Flag	Units	Conc.	Cor		Recovery		Limits		nalyzed
GRO	······································	mg/Kg	00.1	0.9	68	97		80 - 120	20	10-09-21
Standard	(CCV-2)									
QC Batch:	73737		Date A	nalyzed:	2010-09-21			Ana	alyzed B	y: AG
			CCVs	CC	Vs	CCVs		Percent		
			True	Fou		Percent		ecoverv		Date
Param	Flag	Units	Conc.	Cor		Recovery		Limits	A	nalyzed
		mg/Kg	1.00	0.8		89		80 - 120		10-09-21

114 - 6400685

Work Order: 10091629 COG/Schley Federal #11 Page Number: 13 of 13 Eddy County, NM

Standard (CCV-1)

QC Batch: 73738

Date Analyzed: 2010-09-21

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.109	109	80 - 120	2010-09-21
Toluene		mg/Kg	0.100	0.109	109	80 - 120	2010-09-21
Ethylbenzene		mg/Kg	0.100	0.110	110	80 - 120	2010-09-21
Xylene		mg/Kg	0.300	0.333	111	80 - 120	2010-09-21

Standard (CCV-2)

QC Batch: 73738

Date Analyzed: 2010-09-21

Analyzed By: AG

			CCVs True	${ m CCVs} \ { m Found}$	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.109	109	80 - 120	2010-09-21
Toluene		mg/Kg	0.100	0.108	108	80 - 120	2010-09-21
Ethylbenzene		mg/Kg	0.100	0.109	109	80 - 120	2010-09-21
Xylene		mg/Kg	0.300	0.327	109	80 - 120	2010-09-21

Standard (ICV-1)

QC Batch: 73783

Date Analyzed: 2010-09-23

Analyzed By: AR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-09-23

Standard (CCV-1)

QC Batch: 73783

Date Analyzed: 2010-09-23

Analyzed By: AR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-09-23

X WO #: 10091629

An	Analysis Request of Chain of Custody Record									PAGE: OF:																				
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