SITE INFORMATION

		Rep	ort Type: V	Vork Pla	an		
General Site Inf	ormation:			15. szakk			(Kerkin
Site:		JR's Horz F	ederal Tank Bat	tery	ana an		
Company:		COG Operat				· · · · · · · · · · · · · · · · · · ·	
Section, Towns	hip and Range	Unit D	Sec 10	T26S	R29E		
Lease Number:		NMNM-9217					
County:		Eddy Count					
GPS:		<u></u>	32.06344° N			103.97959° W	
Surface Owner:		Federal					
Mineral Owner:		Chardina 1 14	lana kuristi ili i	0	005		\
Directions:			turn right and trav			It on Co Rd 725 (Longhorn R	(a) and
		-				RECEIVED	
• · · · • • • • · · · · ·				·		MAR 16 2011	1
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and the second		the second s		ANG MUS		PRIMERY PRIMERIA	
Date Released:		11/10/2010					
Type Release:		Oil					
Source of Contai Fluid Released:	mination:	Oil Tanks 328 bbls				•	
Fluids Recovered	d:	161 bbls					
	u. Inication:	and the second					a. Katel
Name:	Pat Ellis	ar "Allowersky States". States of States		WERE AND ALL AN	lke Tavarez	a managana na ang kurunanan sangara ang manggana katalan katalan katalan katalan katalan katalan katalan katala	ANN CRIMEN
Company:	COG Operating, LL	_C		·····	Tetra Tech	· · · ·	
Address:	550 W. Texas Ave.	550 W. Texas Ave. Ste. 1300			1910 N. Big S	Spring	
P.O. Box		550 W. Texas Ave. Ste. 1300		·		··· V	
City:	Midland Texas, 797	701		******	Midland, Texa	as	
Phone number:	(432) 686-3023		1	· · · · · · · · · · · · · · · · · · ·	(432) 425-38		
Fax:	(432) 684-7137						
Email:	pellis@conchoreso	urces.com			ike.tavarez@	2 tetratech.com	
Ranking Criteria		er server	San				
Depth to Ground	water		Ranking Score	1		Site Data	<u></u>
<50 ft			20			She Dala	
50-99 ft			10				
>100 ft.	`		0			0	
WellHead Protect	tion:		Ranking Score	T		Site Data	
Water Source <1,	000 ft., Private <200 f		20				
Water Source >1,	000 ft., Private >200 f	ft.	0	-	··-·	0	
Surface Body of	Water:		Ranking Score	T :		Site Data	
<200 ft.			20	1			
200 ft - 1,000 ft.			10				
>1,000 ft.			0			0	
TA	tal Ranking Score			2			
restered and the second s	калтанкніў Зсоге	A CONTRACTOR AND					
		NA MARKE WASHING IN		mg/kg)			
		Accepta	DIE SUIL ARAL	W 10 1. 1. V 1.455	2 S		
		Benzene	Total BTEX	TPH			
		and a second					



March 1, 2011

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

Re: Work Plan for the COG Operating LLC., JR's Horz Federal Tank Battery, Unit D, Section 10, Township 26 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 JR's Horz Federal Tank Battery located in Unit D, Section 10, Township 26 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.06344°, W 103.97959°. 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 November 10, 2010, when an oil tank overflowed and released approximately three hundred and twenty eight (328) barrels of oil. The release was contained inside the facility firewall. To alleviate the problem, COG personnel used vacuum trucks to recover the fluids. One hundred and sixty-one (161) barrels of standing fluids were recovered inside the tank battery firewall. The facility measured approximately 35' X 130'. The C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 10. 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 December 29, 2010, Tetra Tech personnel inspected and sampled the spill area. Prior to sampling, COG had excavated the spill area to a depth from 1.0' to 3.0' below surface and backfilled the excavations. Tetra Tech collected samples below the clean backfilled material. A total of six (6) auger holes (AH-1 through AH-6) were installed using a stainless steel hand auger to assess the impacted soils. 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-ofcustody 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, AH-2 was above the allowed RRAL for TPH and BTEX and declined below the RRAL at 3.0' and the chloride concentration declined with depth to 940 mg/kg. All remaining auger holes had chloride levels that ranged from <200 mg/kg to 1,270 mg/kg. Sample at 0-1.0' from AH-3, AH-4 and AH-6 showed chloride concentrations of 718 mg/kg, 1,270 mg/kg and 988 mg/kg, respectively. Deeper samples were not collected due to a dense formation.

Work Plan

Tetra Tech proposes to excavate the impacted soils in the area of AH-2 to approximately 3.0' to 4.0' to remove TPH and BTEX exceeding the RRAL and the chloride impact exceeding 1,000 mg/kg. The proposed depths are shown in Table 1. If accessible, backhoe trenches will be installed in the areas of AH-2, AH-3, AH-4 and AH-6 to collect deeper samples to define the



chloride impact in these areas.

If deeper impact is encountered, the proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable.

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 LECH

Ike Tavarez Project Manager

cc: Pat Ellis – COG cc: Terry Gregston – BLM

TABLE

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Table 1COG Operating LLC.JR's Horz Federal Tank BatteryEDDY COUNTY, NEW MEXICO

Sample	Sample	Sample	Depth	Soi	l Status	TF	PH (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID.	Date	Depth (ft)	· ·	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	12/29/2010	0-1'	2'	Х		<2.00	<50.0	<50.0	-	-	-	-	408
		1-1.5'	2'.	Х					-	-	-	-	511
		2-2.5'	2'	Х					-	-	-	_	367
		3-3.5'	2'	X					-	-	-	-	475
AH-2	12/29/2010	0-1'	1	X		4,410	6,420	10,830	8.26	42.4	29.2	86.8	1,200
		1-1.5'	1	• X		6,760	9,700	16,460	9.91	48.5	30.5	86	1,350
		2-2.5	ाः	X		5,720	22,300	28,020	11.9	121	60.3	176	1,030
		3-3.5'	1'	X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	940
AH-3	12/29/2010	0-1'	1'	X		183	398	581	<0.100	0.337	0.864	3.7	718
AH-4	12/29/2010	0-1'	1'	X		.27.9	195.0	222.9	-	-		-	1,270
AH-5	12/29/2010	0-1'	1'	X		1,910	1,870	3,780	<0.200	4.03	4.88	14.3	<200
	<u> </u>		<u> </u>							l			
AH-6	12/29/2010	0-1'	1'	Х		21.1	364.0	385.1	-	-	-	-	988

BEB Below Excavation Bottom

(--) Not Analyzed

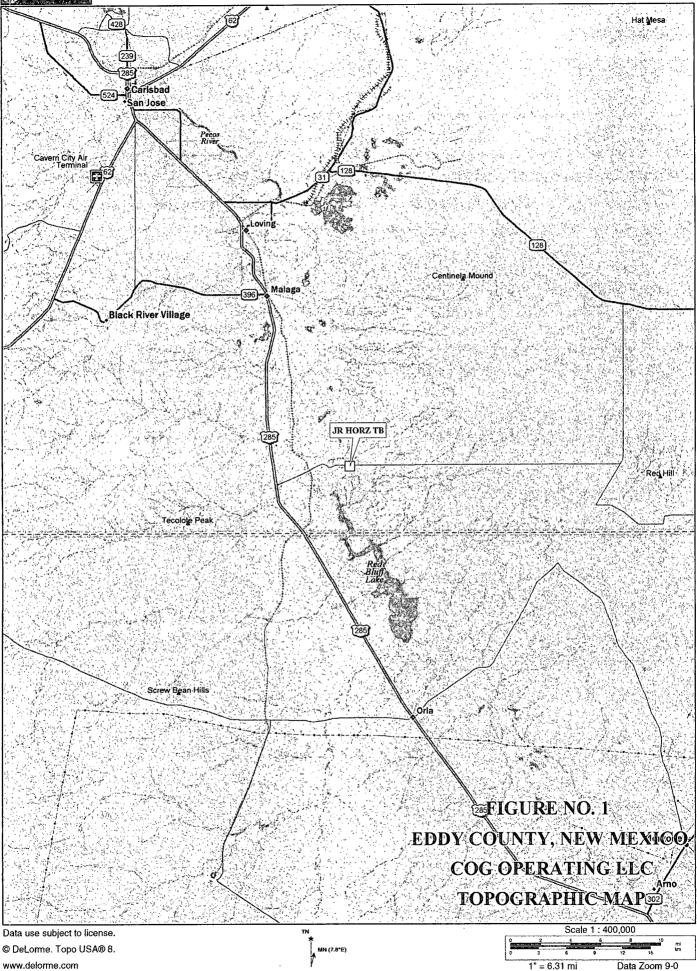
1

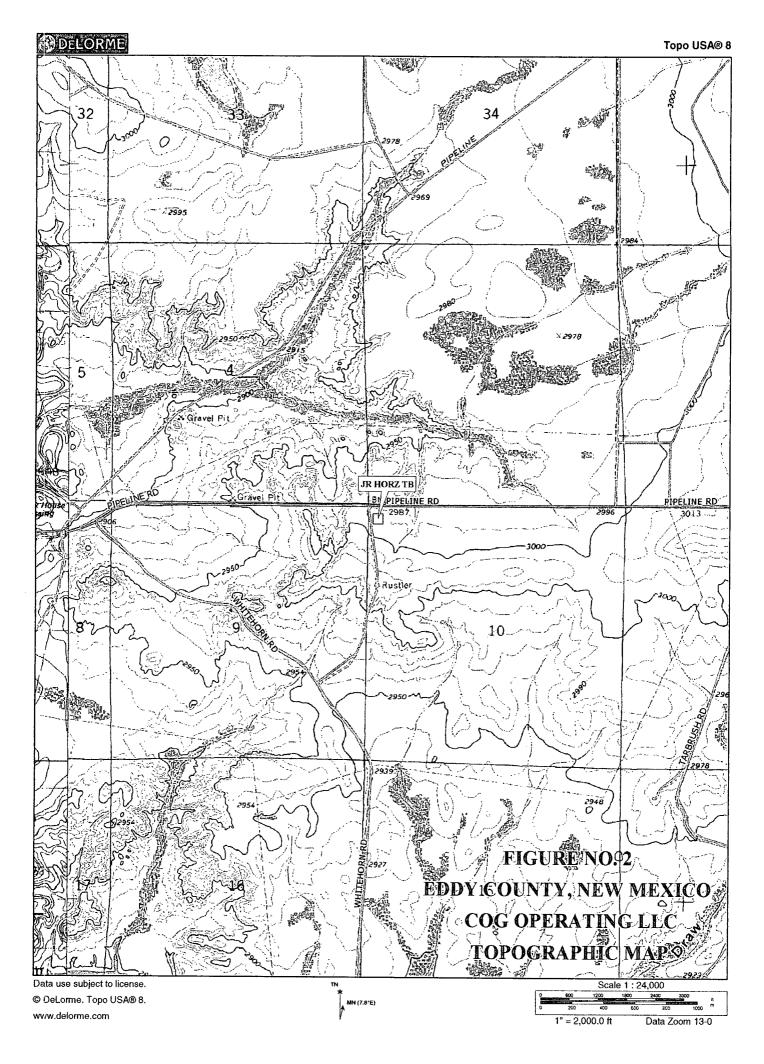
Proposed Excavated Depths

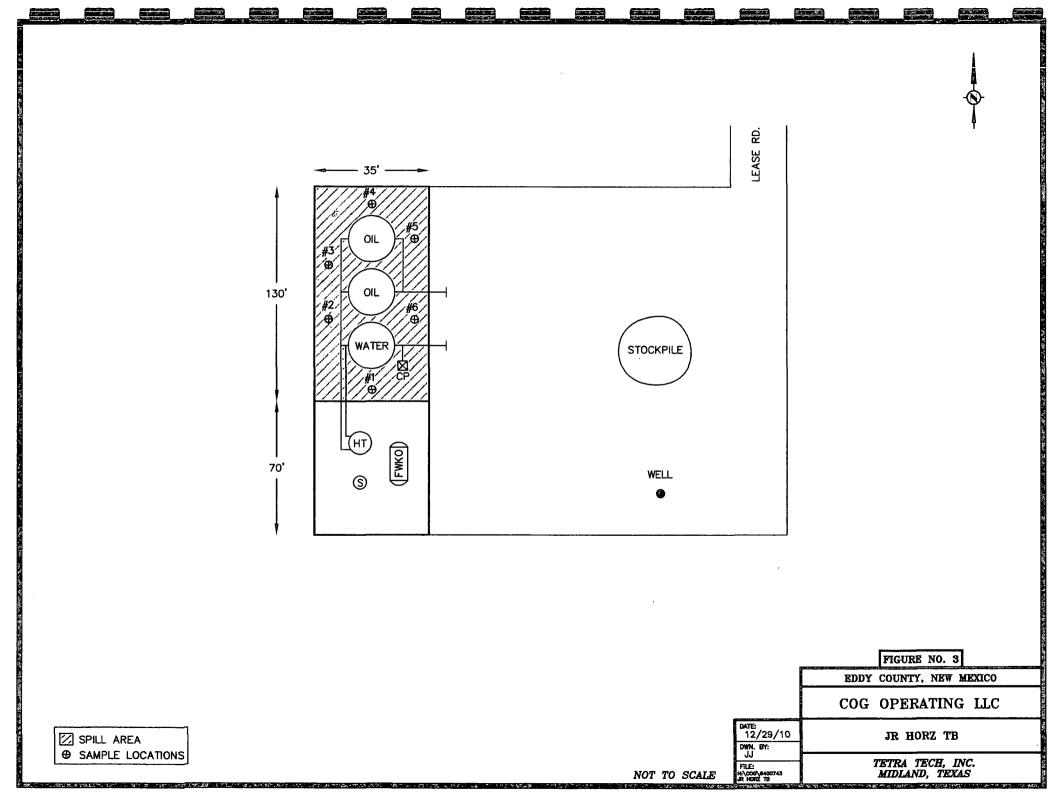
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FIGURES

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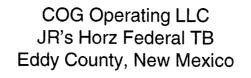


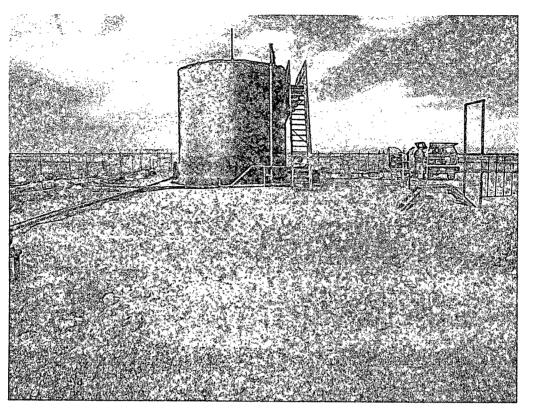




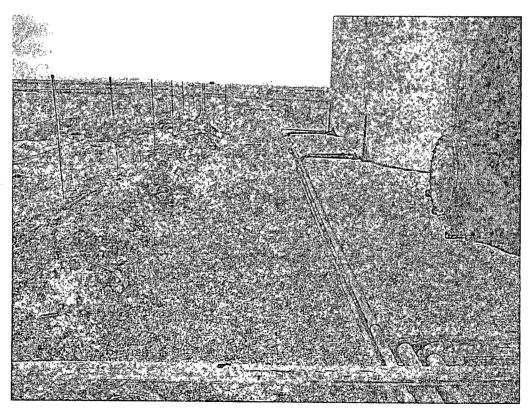
PHOTOGRAPHS

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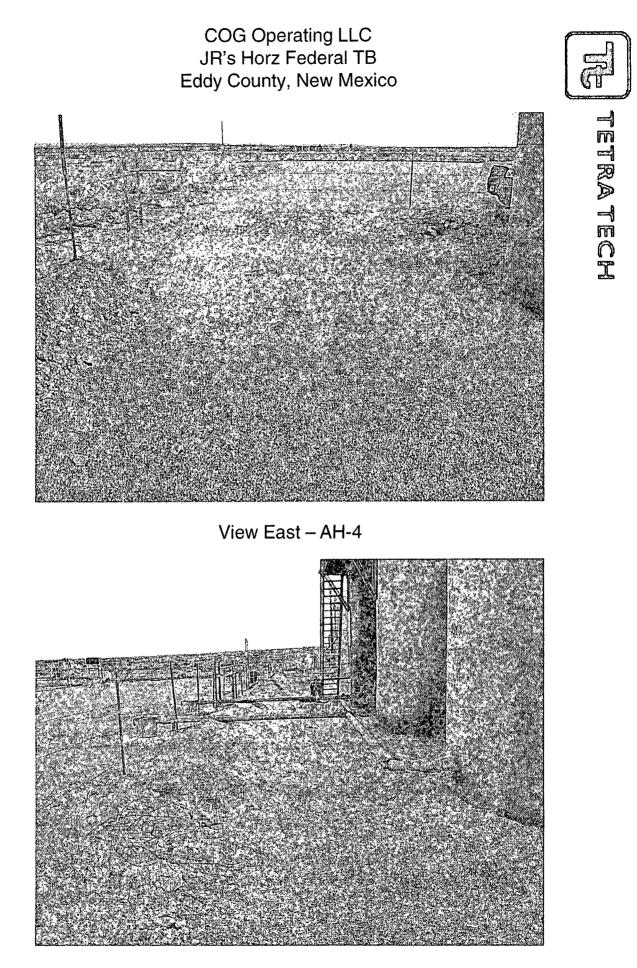


View North - AH-1, AH-6, AH-2



View North – AH-2, AH-3

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View South – AH-5, AH-6

APPENDIX A

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State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr.

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	Fe, NM 875	05		side of form
Release Notificati	ion and Co	rrective A	ction	
	OPERA	FOR	🖂 Initia	al Report 🔲 Final Report
Name of Company COG OPERATING LLC	Contact		at Ellis	
Address 550 W. Texas, Suite 100, Midland, TX 79701	Telephone N		230-0077	
Facility Name JR's Horz Federal Tank Battery	Facility Typ	e Tan	k Battery	
Surface Owner Federal Mineral Owner	er		Lease N	Io. NMNM-92177
LOCATI	ON OF REI	LEASE		
	orth/South Line	Feet from the	East/West Line	County
D 10 26S 29E 380	North	330	West	Eddy
Latitude 32 03.7	99 Longitu	de 103 58.756	<u> </u>	
	E OF RELI			
Type of Release Oil	and the second	Release 328bbls	Volume F	Recovered 161bbls
Source of Release Oil tanks		lour of Occurrenc		Hour of Discovery
Was Immediate Notice Given?	11/10/2010 If YES, To		11/10/201	0 8:30 a.m.
Yes D No D Not Requir			Mike Bratcher—O	
By Whom? Josh Russo	Data and H	our 11/11/2010	Ferry Gregston—E	BLM
Was a Watercourse Reached?		lume Impacting t		
🗌 Yes 🖾 No		1 0		
If a Watercourse was Impacted, Describe Fully.*	I		<u></u>	
Describe Cause of Problem and Remedial Action Taken.*				
Describe Cause of Problem and Remonal Action Taken."				
Oil overflowed out of oil storage tanks due to water flow from JR's Ho further notice.	orz #1 well backs	ide, JR's Horz #3	1 well has had tubi	ng and casing shut in until
turiner honce.				
Describe Area Affected and Cleanup Action Taken.*				
Initially 328bbls of oil was released from the tanks and we were able to	o recover 161bbb	s of oil with vacu	um trucks All rele	eased fluid was contained inside
the dike walls of the facility. The spill area had the dimensions of 30'	x 120' inside the	dike. (The closes	t well location to the	he release is on the same pad
location, JR's Horz Federal #1 well, API# 30-015-33066). Tetra Tech	will sample the s	pill site area to d	elineate any possib	le contamination from the
release and we will present a remediation work plan to the NMOCD/B	LIVE for approval	prior to any signi	ficant remediation	WORK.
I hereby certify that the information given above is true and complete t				
regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by				
should their operations have failed to adequately investigate and remed	liate contamination	on that pose a thre	eat to ground water	, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report	rt does not relieve	e the operator of r	esponsibility for co	ompliance with any other
federal, state, or local laws and/or regulations.		OIL CONS	SERVATION	DIVISION
			JUNYAIION	
Signature:	┥			:
Printed Name: Josh Russo	Approved by	District Supervise	or:	
Title: HSE Coordinator	Approval Dat	e;	Expiration	Date:
E-mail Address: jrusso@conchoresources.com	Conditions of	Approval:		Attached
Dato: 11/16/2010 Phone: 422.212.2200				
Date: 11/16/2010 Phone: 432-212-2399				

APPENDIX B

1

Water Well Data Average Depth to Groundwater (ft) COG - Jr's Horz Federal Tank Battery **Eddy County, New Mexico**

30 E		outh	24 S		_) East	29	outh	24 Se				t	East	28		uth	l So	24	
2	3	4	5		6	1	2	3	4	5	6	60	6	55 1	2 5	3	30	4	30	5	70
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	27	268 28	29		30	25	26	27	28	29	30	4	e T		26	27		28		29)
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New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

APPENDIX C

.

Summary Report

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

Report Date: January 13, 2011

Work Order: 11010504

Project Location:Eddy County, NMProject Name:COG/JR HorzProject Number:114-6400743

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
254664	AH-1 0-1' 2' BEB	soil	2010-12-29	00:00	2011-01-05
254665	AH-1 1-1.5' 2' BEB	soil	2010-12-29	00:00	2011-01-05
254666	AH-1 2-2.5' 2' BEB	soil	2010-12-29	00:00	2011-01-05
254667	AH-1 3-3.5' 2' BEB	soil	2010-12-29	00:00	2011-01-05
254668	AH-2 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254669	AH-2 1-1.5' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254670	AH-2 2-2.5' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254671	AH-2 3-3.5' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254672	AH-3 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254673	AH-4 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254674	AH-5 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254675	AH-6 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05

			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)
254664 - AH-1 0-1' 2' BEB					<50.0	<2.00
254668 - AH-2 0-1' 1' BEB	8.26	42.4	29.2	86.8	6420	4410
254669 - AH-2 1-1.5' 1' BEB	9.91	48.5	30.5	86.0	9700	6760
254670 - AH-2 2-2.5' 1' BEB	11.9	121	60.3	176	22300	5720
254671 - AH-2 3-3.5' 1' BEB	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	$<\!2.00$
254672 - AH-3 0-1' 1' BEB	< 0.100	0.337	0.864	3.70	398	183
254673 - AH-4 0-1' 1' BEB					195	27.9
254674 - AH-5 0-1' 1' BEB	< 0.200	4.03	4.88	14.3	1870	1910
254675 - AH-6 0-1' 1' BEB					364	21.1

Sample: 254664 - AH-1 0-1' 2' BEB

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: Janu	ary 13, 2011	Work Order: 11010504	Page	Number: 2 of 3
Param	Flag	Result	Units	RL
Chloride		408	mg/Kg	4.00
Sample: 254665	- AH-1 1-1.5' 2' BEB			
Param	Flag	Result	Units	RL
Chloride		511	mg/Kg	4.00
Sample: 254666	- AH-1 2-2.5' 2' BEB			
Param	Flag	Result	Units	RL
Chloride		367	mg/Kg	4.00
Sample: 254667	- AH-1 3-3.5' 2' BEB			
Param	Flag	Result	Units	RL
Chloride		475	mg/Kg	4.00
Sample: 254668	- AH-2 0-1' 1' BEB			
Param	Flag	Result	Units	RL
Chloride		1200	mg/Kg	4.00
Sample: 254669	- AH-2 1-1.5' 1' BEB			
Param	Flag	Result	Units	RL
Chloride		1350	mg/Kg	4.00
Sample: 254670	- AH-2 2-2.5' 1' BEB			
Param	Flag	Result	Units	RL
Chloride		1030	mg/Kg	4.00
Sample: 254671	- AH-2 3-3.5' 1' BEB			
Param	Flag	Result	Units	RL
Chloride		940	mg/Kg	4.00

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: Janu	ary 13, 2011	Work Order: 11010504		Page Number: 3 of 3
Sample: 254672	- AH-3 0-1' 1' BEB			
Param	Flag	Result	Units	RL
Chloride		718	mg/Kg	4.00
Sample: 254673	- AH-4 0-1' 1' BEB			
Param	Flag	Result	Units	RL
Chloride		1270	mg/Kg	4.00
Sample: 254674	- AH-5 0-1' 1' BEB			
Faram	Flag	Result	Units	\mathbf{RL}
Chloride		<200	mg/Kg	4.00
Sample: 254675	- AH-6 0-1' 1' BEB			
Param	Flag	Result	Units	RL
Chloride	· · · · · · · · · · · · · · · · · · ·	988	mg/Kg	4.00



6701 Aberdeen Avenue, Suite 9Lubbock, Texas 79424200 East Sunset Road, Suite EEl Paso, Texas 799225002 Basin Street, Suite A1Midland, Texas 797036015 Harris Parkway, Suite 110Ft. Worth, Texas 76132

Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79922 868•588•3443 Midland, Texas 79703 t. Worth, Texas 76132 E-Mail: Iab@traceanalysis.com

800•378•1296 806•794•1296 888•588•3443 915•585•3443 432•689•6301 817•201•5260 FAX 806+794+1298 FAX 915+585+4944 FAX 432+689+6313

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: January 13, 2011

Work Order: 11010504

Project Location: Eddy County, NM Project Name: COG/JR Horz Project Number: 114-6400743

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

			Date	Time	\mathbf{Date}
Sample	Description	Matrix	Taken	Taken	Received
254664	AH-1 0-1' 2' BEB	soil	2010-12-29	00:00	2011-01-05
254665	AH-1 1-1.5' 2' BEB	soil	2010-12-29	00:00	2011-01-05
254666	AH-1 2-2.5' 2' BEB	soil	2010-12-29	00:00	2011-01-05
254667	AH-1 3-3.5' 2' BEB	soil	2010-12-29	00:00	2011 - 01 - 05
254668	AH-2 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254669	AH-2 1-1.5' 1' BEB	soil	2010-12-29	00:00	2011 - 01 - 05
254670	AH-2 2-2.5' 1' BEB	soil	2010-12-29	00:00	2011 - 01 - 05
254671	AH-2 3-3.5' 1' BEB	soil	2010-12-29	00:00	2011 - 01 - 05
254672	AH-3 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254673	AH-4 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
254674	AH-5 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05
254675	AH-6 0-1' 1' BEB	soil	2010-12-29	00:00	2011-01-05

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 28 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

Standard Flags

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

Case Narrative

Samples for project COG/JR Horz were received by TraceAnalysis, Inc. on 2011-01-05 and assigned to work order 11010504. Samples for work order 11010504 were received intact at a temperature of 3.0 C.

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

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	65908	2011-01-12 at 10:10	76857	2011-01-12 at 10:10
Chloride (Titration)	SM 4500-Cl B	65759	2011-01-05 at 10:41	76736	2011-01-07 at 10:24
Chloride (Titration)	SM 4500-Cl B	65759	2011-01-05 at 10:41	76737	2011-01-07 at 10:25
TPH DRO - NEW	S 8015 D	65801	2011-01-06 at 15:19	76742	2011-01-06 at 15:19
TPH DRO - NEW	S 8015 D	65869	2011-01-10 at 14:56	76813	2011-01-10 at 14:56
TPH GRO	S 8015 D	65793	2011-01-06 at 11:27	76727	2011-01-06 at 11:27
TPH GRO	S 8015 D	65888	2011-01-11 at 14:09	76834	2011-01-11 at 14:09

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 11010504 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.

Analytical Report

Sample: 254664 - AH-1 0-1' 2' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76736	Date Analyzed:	2011-01-07	Analyzed By:	\mathbf{AR}
Prep Batch:	65759	Sample Preparation	: 2011-01-05	Prepared By:	\mathbf{AR}
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		408	mg/Kg	50	4.00

Sample: 254664 - AH-1 0-1' 2' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 76742 65801	IEW	Date Ar	cal Method: nalyzed: Preparation:	S 8015 D 2011-01-06 2011-01-06	Prep M Analyz Prepare	
Parameter	F	lag	RL Result	1	Units	Dilution	RL
DRO	L .	аа <u>Б</u>	<50.0		g/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		94.1	mg/Kg	1	100	94	70 - 130

Sample: 254664 - AH-1 0-1' 2' BEB

Laboratory: Analysis: QC Batch:	Midland TPH GRO 76727		Analytical Date Anal		S 8015 D 2011-01-06		Prep Metl Analyzed	
Prep Batch:	65793			eparation:	2011-01-06		Prepared	
			RL					
Parameter	Flag		Result		Units	D	Dilution	RL
GRO			<2.00		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		2.53	mg/Kg	1	2.00	126	48.5 - 152
4-Bromofluor	robenzene (4-BFB)		2.36	mg/Kg	1	2.00	118	42 - 159

Report Date: January 13, 2011	Work Order: 11010504	Page Number: 5 of 28
114-6400743	COG/JR Horz	Eddy County, NM

Sample: 254665 - AH-1 1-1.5' 2' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76736	Date Analyzed:	2011-01-07	Analyzed By:	\mathbf{AR}
Prep Batch:	65759	Sample Preparation:	2011-01-05	Prepared By:	AR.
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		511	mg/Kg	50	4.00

Sample: 254666 - AH-1 2-2.5' 2' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 76736 65759	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2011-01-07 2011-01-05	Prep Method: Analyzed By: Prepared By:	ÁR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		367	mg/Kg	50	4.00

Sample: 254667 - AH-1 3-3.5' 2' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76736	Date Analyzed:	2011-01-07	Analyzed By:	AR
Prep Batch:	65759	Sample Preparation:	2011-01-05	Prepared By:	\mathbf{AR}
					
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		475 1	ng/Kg	50	4.00

Sample: 254668 - AH-2 0-1' 1' BEB

Laboratory:	Midland					
Analysis:	BTEX		Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76857		Date Analyzed:	2011-01-12	Analyzed By:	ME
Prep Batch:	65908		Sample Preparation:	2011-01-12	Prepared By:	ME
			RL			
Parameter		Flag	Result	\mathbf{Units}	Dilution	\mathbf{RL}
Benzene			8.26	mg/Kg	20	0.0200
Toluene			42.4	mg/Kg	20	0.0200
					continued	

 $continued \ldots$

Report Date: January 13, 2011	Work Order: 11010504	Page Number: 6 of 28
114-6400743	COG/JR Horz	Eddy County, NM

sample 254668 continued ...

			RL					
Parameter F	lag		Result		Units	Dil	ution	RL
Ethylbenzene			29.2		mg/Kg	•	20	0.0200
Xylene			86.8		mg/Kg		20	0.0200
						Spike	Percent	Recovery
Surrogate	F	lag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			20.7	mg/Kg	20	20.0	104	52.8 - 137
4-Bromofluorobenzene (4-BFI	3)	1	46.6	mg/Kg	20	20.0	233	38.4 - 157

Sample: 254668 - AH-2 0-1' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 76736 65759	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2011-01-07 2011-01-05	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		1200	mg/Kg	100	4.00

Sample: 254668 - AH-2 0-1' 1' BEB

Laboratory:	Midland						
Analysis:	TPH DRO - N	IEW	Analyti	cal Method:	S 8015 D	Prep M	fethod: N/A
QC Batch:	76742		Date A	nalyzed:	2011-01-06	Analyz	ed By: kg
Prep Batch:	65801		Sample	Preparation:	2011-01-06	Prepar	ed By: kg
			RL				
Parameter	\mathbf{F}	ag	\mathbf{Result}		Units	Dilution	\mathbf{RL}
DRO			6420	m	g/Kg	5	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	2	851	mg/Kg	5	100	851	70 - 130

Sample: 254668 - AH-2 0-1' 1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	76727	Date Analyzed:	2011-01-06	Analyzed By:	ME
Prep Batch:	65793	Sample Preparation:	2011-01-06	Prepared By:	ME

¹High surrogate recovery due to peak interference.

²High surrogate recovery due to peak interference.

Report Date: January 13, 2011 114-6400743			V	Vork Order: COG/JR		0			
Parameter Flag			RL Result		Units	D	ilution	RL	
GRO			4410		mg/Kg		20	2.00 Recovery Limits	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	•	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-I	BFB)	3	$\begin{array}{c} 20.2\\ 38.1 \end{array}$	mg/Kg mg/Kg	20 20	20.0 20.0	101 190	48.5 - 152 42 - 159	

Sample: 254669 - AH-2 1-1.5' 1' BEB

Laboratory: Midland							
Analysis: BTEX		Analytical	Method:	S 8021B		Prep Metl	hod: S 5035
QC Batch: 76857		Date Analy	zed:	2011-01-12		Analyzed	By: ME
Prep Batch: 65908		Sample Pre	eparation:	2011-01-12		Prepared	By: ME
		RL					
Parameter	Flag	Result		Units	Di	lution	RL
Benzene		9.91		mg/Kg		50	0.0200
Toluene		48.5		mg/Kg		50	0.0200
Ethylbenzene		30.5		mg/Kg		50	0.0200
Xylene		86.0		mg/Kg		50	0.0200
					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	·····	44.9	mg/Kg	50	50.0	90	52.8 - 137
4-Bromofluorobenzene (4	4-BFB)	69.7	mg/Kg	50	50.0	139	38.4 - 157

Sample: 254669 - AH-2 1-1.5' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 76736 65759	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2011-01-07 2011-01-05	Prep Method: Analyzed By: Prepared By:	\overline{AR}
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		1350	mg/Kg	100	4.00

Sample: 254669 - AH-2 1-1.5' 1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	76813	Date Analyzed:	2011-01-10	Analyzed By:	kg
Prep Batch:	65869	Sample Preparation:	2011-01-10	Prepared By:	kg
	·····	_			

³High surrogate recovery due to peak interference.

Report Date: January 13, 2011	Work Order: 11010504	Page Number: 8 of 28
114-6400743	COG/JR Horz	Eddy County, NM
	······································	

Parameter	F	lag	RL Result	Un	its	Dilution	RL
DRO			9700	mg/]	Kg	10	50.0
Sumorato	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate n-Tricosane	<u>4</u>	796	mg/Kg	<u>10</u>	100 Amount	796	70 - 130

Sample: 254669 - AH-2 1-1.5' 1' BEB

Laboratory:	Midland								
Analysis:TPH GROQC Batch:76834			Analytical	l Method:	S 8015 D		Prep Method: S Analyzed By: 1		
			Date Ana	lyzed:	2011-01-11				
Prep Batch:	65888		Sample P	reparation:	2011-01-11		Prepared By: M		
			\mathbf{RL}						
Parameter	Flag		\mathbf{Result}		Units	D	vilution	\mathbf{RL}	
GRO			6760		mg/Kg		50	2.00	
						Spike	Percent	Recovery	
Surrogate		\mathbf{F} lag	Result	Units	Dilution	Amount	Recovery	Limits	
Triffuorotolue	ene (TFT)		51.9	mg/Kg	50	50.0	104	48.5 - 152	
4-Bromofluor	obenzene (4-BFB)		70.4	mg/Kg	50	50.0	141	42 - 159	

Sample: 254670 - AH-2 2-2.5' 1' BEB

Laboratory: Midland							
Analysis: BTEX		Analytical 1	Method:	S 8021B		Prep Meth	hod: S 5035
QC Batch: 76857		Date Analy	zed:	2011-01-12		Analyzed	By: ME
Prep Batch: 65908		Sample Pre	paration:	2011-01-12		Prepared	By: ME
		RL					
Parameter Fla	ıg	Result		Units	Di	lution	RL
Benzene		11.9		mg/Kg		50	0.0200
Toluene		121		mg/Kg		50	0.0200
Ethylbenzene		60.3		mg/Kg		50	0.0200
Xylene		176		mg/Kg		50	0.0200
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		52.0	mg/Kg	50	50.0	104	52.8 - 137
4-Bromofluorobenzene (4-BFB)	5	104	mg/Kg	50	50.0	208	38.4 - 157

⁴High surrogate recovery due to peak interference. ⁵High surrogate recovery due to peak interference.

Report Date: January 13, 2011	Work Order: 11010504	Page Number: 9 of 28
114-6400743	$\operatorname{COG}/\operatorname{JR}$ Horz	Eddy County, NM

Sample: 254670 - AH-2 2-2.5' 1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76736	Date Analyzed:	2011-01-07	Analyzed By:	AR
Prep Batch:	65759	Sample Preparation	2011-01-05	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		1030	mg/Kg	100	4.00

Sample: 254670 - AH-2 2-2.5' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 76813 65869	VEW	Date A	cal Method: nalyzed: Preparation:	S 8015 D 2011-01-10 2011-01-10	Prep M Analyz Prepar	
Parameter DRO	F	lag	RL Result 22300	- t	Jnits g/Kg	Dilution 10	RL 50.0
Surrogate n-Tricosane	Flag 6	Result 1900	Units mg/Kg	Dilution 10	Spike Amount 100	Percent Recovery 1900	Recovery Limits 70 - 130

Sample: 254670 - AH-2 2-2.5' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 76834 65888		Analytical Date Anal Sample Pr		S 8015 D 2011-01-11 2011-01-11		Prep Met Analyzed Prepared	By: ME
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	lution	RL
GRO			5720		mg/Kg		50	2.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		50.4	mg/Kg	50	50.0	101	48.5 - 152
4-Bromofluor	obenzene (4-BFB)		71.5	mg/Kg	50	50.0	143	42 - 159

⁶High surrogate recovery due to peak interference.

Sample: 254671 - AH-2 3-3.5' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 76857 65908		Analytical I Date Analy Sample Pre	zed:	S 8021B 2011-01-12 2011-01-12		Prep Met Analyzed Prepared	By: ME
			RL					
Parameter	Fla	g	Result		Units	D	ilution	RL
Benzene			< 0.0200		mg/Kg	······	1	0.0200
Toluene			< 0.0200		mg/Kg		1	0.0200
Ethylbenzene	3		< 0.0200		mg/Kg		1	0.0200
Xylene			< 0.0200		mg/Kg		11	0.0200
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.92	mg/Kg	1	2.00	96	52.8 - 137
4-Bromofluor	obenzene (4-BFB)		1.90	mg/Kg	1	2.00	95	38.4 - 157

Sample: 254671 - AH-2 3-3.5' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 76736 65759	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2011-01-07 2011-01-05	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		940	mg/Kg	100	4.00

Sample: 254671 - AH-2 3-3.5' 1' BEB

Laboratory:	Midland						
Analysis:	TPH DRO - N	IEW	Analyti	cal Method:	S 8015 D	Prep M	lethod: N/A
QC Batch:	76813		Date A	nalyzed:	2011-01-10	Analyz	,
Prep Batch:	65869		Sample	Preparation:	2011-01-10	Prepare	• •
			\mathbf{RL}				
Parameter	F	ag	Result	τ	Inits	Dilution	\mathbf{RL}
DRO	· · · · · · · · · · · · · · · · · · ·		<50.0	mg	/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	\mathbf{F} lag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	- · · · · · · · · · · · · · · · · · · ·	92.0	mg/Kg	1	100	92	70 - 130

Sample: 254671 - AH-2 3-3.5' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 76834 65888		Analytical Date Anal Sample Pr		S 8015 D 2011-01-11 2011-01-11		Prep Meth Analyzed Prepared I	By: ME
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	RL
GRO		·	<2.00		mg/Kg		1	2.00
-			_			Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		2.30	mg/Kg	1	2.00	115	48.5 - 152
4-Bromofluor	obenzene (4-BFB)		2.21	mg/Kg	1	2.00	110	42 - 159

Sample: 254672 - AH-3 0-1' 1' BEB

Analysis: B7 QC Batch: 76	idland FEX 857 908		Analytical M Date Analy Sample Pre	zed:	S 8021B 2011-01-12 2011-01-12		Prep Metho Analyzed B Prepared B	y: ME
			RL					
Parameter	Flag		Result		Units	Dil	ution	RL
Benzene			< 0.100		mg/Kg		5	0.0200
Toluene			0.337		mg/Kg		5	0.0200
Ethylbenzene			0.864		mg/Kg		5	0.0200
Xylene			3.70		mg/Kg		5	0.0200
				,		Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	(TFT)		4.76	mg/Kg	5	5.00	95	52.8 - 137
4-Bromofluorobe	enzene (4-BFB)		5.18	mg/Kg	5	5.00	104	38.4 - 157

Sample: 254672 - AH-3 0-1' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 76736 65759	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2011-01-07 2011-01-05	Prep Method: Analyzed By: Prepared By:	$\overline{\mathrm{AR}}$
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	- 1005		ng/Kg	50	4.00

Sample: 254672 - AH-3 0-1' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 76742 65801	IEW	Date Ar	nalyzed:	S 8015 D 2011-01-06 2011-01-06	Prep M Analyz Prepare	
Parameter	F	lag	RL Result	-	nits	Dilution	RL
DRO			398	mg,	/Kg	I	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	7	155	mg/Kg	1	100	155	70 - 130

Sample: 254672 - AH-3 0-1' 1' BEB

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 76727 65793		Analytical Date Anal Sample Pr		S 8015 D 2011-01-06 2011-01-06		Prep Meth Analyzed Prepared	By: ME
			RL					
Parameter	\mathbf{F} lag		Result		Units	D	ilution	RL
GRO			183		mg/Kg		10	2.00
						Spike	Percent	Recovery
Surrogate		\mathbf{F} lag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		11.1	mg/Kg	10	10.0	111	48.5 - 152
4-Bromofluor	obenzene (4-BFB)		11.8	mg/Kg	10	10.0	118	42 - 159

Sample: 254673 - AH-4 0-1' 1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76736	Date Analyzed:	2011-01-07	Analyzed By:	AR
Prep Batch:	65759	Sample Preparation:	2011-01-05	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		1270	mg/Kg	100	4.00

⁷High surrogate recovery due to peak interference.

Sample: 254673 - AH-4 0-1' 1' BEB

Laboratory:	Midland	113347	Å 1 t -:	1 Mathad	C 9015 D	Duan M	athed. N/A
Analysis:	TPH DRO - N	NE W	v	cal Method:	S 8015 D	-	lethod: N/A
QC Batch:	76742		Date Ai	nalyzed:	2011-01-06	Analyz	ed By: kg
Prep Batch:	65801		Sample	Preparation:	2011-01-06	Prepare	ed By: kg
			RL				
Parameter	\mathbf{F}	lag	Result	I	Units	Dilution	RL
DRO			195	m	g/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	8	133	mg/Kg	1	100	133	70 - 130

Sample: 254673 - AH-4 0-1' 1' BEB

Laboratory:	Midland							
Analysis:	TPH GRO		Analytical	Method:	S 8015 D		Prep Meth	nod: S 5035
QC Batch:	76727		Date Anal	yzed:	2011-01-06		Analyzed	By: ME
Prep Batch:	65793		Sample Pr	Sample Preparation:			Prepared	By: ME
			\mathbf{RL}					
Parameter	\mathbf{Flag}		Result		Units	D	ilution	RL
GRO	· · · · · · · · · · · · · · · · · · ·		27.9		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		2.41	mg/Kg	1	2.00	120	48.5 - 152
4-Bromofluor	robenzene (4-BFB)		2.46	mg/Kg	1	2.00	123	42 - 159

Sample: 254674 - AH-5 0-1' 1' BEB

Laboratory:	Midland					
Analysis:	BTEX		Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76857		Date Analyzed:	2011-01-12	Analyzed By:	\mathbf{ME}
Prep Batch:	65908		Sample Preparation:	2011-01-12	Prepared By:	ME
			RL			
Parameter		Flag	Result	Units	Dilution	\mathbf{RL}
Benzene			< 0.200	mg/Kg	10	0.0200
Toluene			4.03	mg/Kg	10	0.0200
Ethylbenzene	:		4.88	mg/Kg	10	0.0200
Xylene			14.3	mg/Kg	10	0.0200

⁸High surrogate recovery due to peak interference.

Report Date: January 13, 2011 114-6400743			Work Order: 11010504 COG/JR Horz				Page Number: 14 of 28 Eddy County, NM			
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Li	covery mits	
Trifluorotolu		_	9.21	mg/Kg	10	10.0	92		52.8 - 137	
4-Bromofluor	robenzene (4-BF	B)	14.4	mg/Kg	10	10.0	144	38.4	1 - 157	
Sample: 25	4674 - AH-5 0	-1' 1' BEB								
Laboratory:	Midland									
Analysis:	· · · · · ·		•	Analytical Method: SM 4500-Cl B			Prep Method: N/			
-	QC Batch: 76737			Analyzed:	2011-01-0		Analyze	•	AR	
Prep Batch: 65759			Sample	e Preparation:	2011-01-0	5	Prepare	ed By:	AR	
			\mathbf{RL}							
Donomotor	EL		D		TI		Dilution		DT	
Chloride	Fl;		Result <200		Units mg/Kg		Dilution 50		RL 4.00	
Chloride Sample: 25 Laboratory: Analysis: QC Batch:	Fla 4 674 - AH-5 0 Midland TPH DRO - N 76742 65801	-1' 1' BEB	<200 Analy Date	/tical Method: Analyzed: le Preparation	mg/Kg S 8015 D 2011-01-) 06		ed By:		
Parameter Chloride Sample: 25 Laboratory: Analysis: QC Batch: Prep Batch:	4674 - AH-5 0 Midland TPH DRO - N 76742	-1' 1' BEB	<200 Analy Date Samp	/tical Method: Analyzed:	mg/Kg S 8015 D 2011-01-) 06	50 Prep M Analyze	ed By:	4.00 N/A kg	
Chloride Sample: 25 Laboratory: Analysis: QC Batch: Prep Batch:	4 674 - AH-5 0 Midland TPH DRO - N 76742 65801	-1' 1' BEB EW	<200 Analy Date Samp RL	/tical Method: Analyzed:	mg/Kg S 8015 D 2011-01- : 2011-01-) 06 06	50 Prep M Analyze Prepare	ed By:	4.00 N/A kg	
Chloride Sample: 25 Laboratory: Analysis: QC Batch:	4674 - AH-5 0 Midland TPH DRO - N 76742	-1' 1' BEB EW	<200 Analy Date Samp	/tical Method: Analyzed: le Preparation	mg/Kg S 8015 D 2011-01-) 06 06	50 Prep M Analyze	ed By:	4.00 N/A kg kg	
Chloride Sample: 25 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	4 674 - AH-5 0 Midland TPH DRO - N 76742 65801	-1' 1' BEB EW	<200 Analy Date Samp RL Result	/tical Method: Analyzed: le Preparation	mg/Kg S 8015 D 2011-01- : 2011-01- Units mg/Kg S) 06 06	50 Prep M Analyze Prepare Dilution	ed By: ed By: Rec	4.00 N/A kg kg	

GRO		1910	mg/Kg	50	2.00
Parameter	Flag	$\operatorname{RL}_{\operatorname{Result}}$	Units	Dilution	RL
Analysis: QC Batch: Prep Batch:	TPH GRO 76727 65793	Analytical Method: Date Analyzed: Sample Preparation:	S 8015 D 2011-01-06 2011-01-06	Prep Method: Analyzed By: Prepared By:	ME

⁹High surrogate recovery due to peak interference.

Report Date: January 13, 2011 114-6400743			Work Order: 11010504 COG/JR Horz				Page Number: 15 of 28 Eddy County, NM		
Surrogate	·	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)		7В)	56.0 64.6	mg/Kg mg/Kg	50 50	50.0 50.0	112 129	48.5 - 152 42 - 159	
Sample: 25	4675 - AH-6)-1' 1' BEB							
Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titr 76737 65759	loride (Titration) 737		Analytical Method:SM 4500-Cl BDate Analyzed:2011-01-07Sample Preparation:2011-01-05			Prep Method: N/A Analyzed By: AR Prepared By: AR		
			\mathbf{RL}						
Parameter Chloride	F	lag	Result 988		Units mg/Kg		Dilution 100	RL 4.00	
Sample: 254675 - AH-6 0-1' 1' BEBLaboratory:MidlandAnalysis:TPH DRO - NEWQC Batch:76742Prep Batch:65801		Analytical Method: S 8015 D Date Analyzed: 2011-01-06 Sample Preparation: 2011-01-06			Prep Method: N/A Analyzed By: kg Prepared By: kg				
-	_		RL		.				
Parameter DRO	Flag		Result 364		Units mg/Kg		Dilution 1	RL 50.0	
Surrogate n-Tricosane	Flag 10	Result 158	Units mg/Kg	Dilutio	n Ar	Spike nount 100	Percent Recovery 158	Recovery Limits 70 - 130	
Sample: 25	4675 - AH-6)-1' 1' BEB							
Laboratory:	Midland TPH GRO 76727 65793		Analytical Method:S 8015 DDate Analyzed:2011-01-06Sample Preparation:2011-01-06				Prep Method: S 5035 Analyzed By: ME Prepared By: ME		
Analysis: QC Batch: Prep Batch:	76727		Date Anal	yzed: 20)11-01-06		Analyzed	By: ME	

¹⁰High surrogate recovery due to peak interference.

114-6400743	·		COG	/JR Horz		Eddy	/ Count	
Surrogate	Flag	Result	Unit	s Dilution	Spike Amount	Percent Recovery		mits
Trifluorotoluene (TFT)		2.28	mg/K		2.00	114	48.5	
4-Bromofluorobenzene	(4-BFB)	2.22	mg/K	Kg 1	2.00	111	42	- 15
Method Blank (1)	QC Batch: 76727							
QC Batch: 76727 Prep Batch: 65793		Date Ana QC Prepa		2011-01-06 2011-01-06		Analyz Prepare		M M
D	T 1		MI		T T			т
Parameter GRO	Flag		Res <1.		Units mg/K			F
			.		Spike	Percent	Rec	
~		Result	Units	s Dilution	\mathbf{A} mount	Recovery	Li	mits
Surrogate	Flag				0.00		676	1
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1)		1.73 1.61	mg/K mg/K	lg 1	2.00 2.00	86 80	$67.6 \\ 52.4$	
Trifluorotoluene (TFT) 4-Bromofluorobenzene	(4-BFB)	1.73	mg/K mg/K alyzed: aration:	2011-01-07 2011-01-05		86	52.4 ed By:	- 1
Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 76736 Prep Batch: 65759	(4-BFB) QC Batch: 76736	1.73 1.61 Date Ana	mg/K mg/K alyzed: aration: MI	2011-01-07 2011-01-05 DL	2.00	86 80 Analyz Prepar	52.4 ed By:	- 1 A
Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 76736	(4-BFB)	1.73 1.61 Date Ana	mg/K mg/K alyzed: aration:	2011-01-07 2011-01-05 DL ult		86 80 Analyz Prepar	52.4 ed By:	- 1 A A
Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 76736 Prep Batch: 65759 Parameter	(4-BFB) QC Batch: 76736	1.73 1.61 Date Ana	mg/K mg/K alyzed: aration: MI Rest <2.	2011-01-07 2011-01-05 DL ult .18 2011-01-07 2011-01-05	2.00 Units	86 80 Analyz Prepar	52.4 ed By: ed By:	
Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 76736 Prep Batch: 65759 Parameter Chloride Method Blank (1) QC Batch: 76737	(4-BFB) QC Batch: 76736 Flag	1.73 1.61 Date Ana QC Prepa	mg/K mg/K alyzed: aration: MI Rest <2.	2011-01-07 2011-01-05 DL ult .18 2011-01-07 2011-01-05 DL	2.00 Units	86 80 Analyz Prepar g g Analyz Prepar	52.4 ed By: ed By:	A)

QC Batch:	76742	Date Analyzed:	2011-01-06	Analyzed By:	kg
Prep Batch:	65801	QC Preparation:	2011-01-06	Prepared By:	kg

114-6400743		, 2011		ork Order: COG/JR				nber: 17 of 2 7 County, NM
Descent				MDL Bogult		Uni		ות
Parameter DRO		Flag		Result <14.6		mg/		RJ 50
DRO	······					mg/	ng	J(
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery	Recover; Limits
n-Tricosane	1 1000	85.1	mg/Kg	1		100	85	70 - 130
Method Blan	ık (1)	QC Batch: 76813						
•	76813 65869		Date Ana QC Prep	<i>v</i>	11-01-10 11-01-10			zed By: kg red By: kg
_				MDL				
Parameter	·····	Flag		Result		Uni		RI 50
DRO	·		<u> </u>	<14.6		mg/	ng	50
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery	Recover Limits
n-Tricosane		99.6	mg/Kg	1		100	100	70 - 130
	ok (1)	OC Batch: 76834						I
Method Blan QC Batch: 7	nk (1) 76834 65888	QC Batch: 76834	Date Ana QC Prepa	ration: 201	11-01-11		Analyz Prepare	
Method Blan QC Batch: 7 Prep Batch: 6	76834					Uni	Prepare	ed By: ME
Method Blan QC Batch: 7	76834	QC Batch: 76834 Flag		ration: 201 MDL		Uni mg/	Prepare	ed By: ME
Method Blan QC Batch: 7 Prep Batch: 6 Parameter GRO	76834			MDL Result <1.65 Units			Prepare ts Kg	ed By: ME
Method Blan QC Batch: 7 Prep Batch: 6 Parameter GRO Surrogate Trifluorotoluen	76834 65888 e (TFT)	Flag Flag	QC Prepa Result 1.70	MDL Result <1.65 Units mg/Kg	Dilution 1	mg/ Spike <u>Amount</u> 2.00	Prepare ts Kg Percent Recovery 85	ed By: ME RI 2 Recovery Limits 67.6 - 150
Method Blan QC Batch: 7 Prep Batch: 6 Parameter GRO Surrogate Trifluorotoluen	76834 65888 e (TFT)	Flag Flag	QC Prepa	MDL Result <1.65 Units	Dilution	mg/ Spike Amount	Prepare ts Kg Percent Recovery	ed By: ME RI Recovery Limits 67.6 - 150
Method Blan QC Batch: 7 Prep Batch: 6 Parameter GRO Surrogate Trifluorotoluen 4-Bromofluorol	76834 65888 te (TFT) benzene (4-	Flag Flag	QC Prepa Result 1.70	MDL Result <1.65 Units mg/Kg	Dilution 1	mg/ Spike <u>Amount</u> 2.00	Prepare ts Kg Percent Recovery 85	ed By: ME RI 2 Recovery Limits 67.6 - 150
Method Blan QC Batch: 7 Prep Batch: 6 Parameter GRO Surrogate Trifluorotoluen 4-Bromofluorol Method Blan QC Batch: 7	76834 65888 le (TFT) benzene (4- 1k (1) 76857	Flag Flag BFB)	QC Prepa Result 1.70 1.56 Date Ana	MDL Result <1.65 Units mg/Kg mg/Kg	Dilution 1 1 1-01-12	mg/ Spike <u>Amount</u> 2.00	Prepare ts Kg Percent Recovery 85 78 Analyze	ed By: ME R1 2 Recovery Limits 67.6 - 150 52.4 - 130
Method Blan QC Batch: 7 Prep Batch: 6 Parameter GRO Surrogate Trifluorotoluen 4-Bromofluorol Method Blan QC Batch: 7	76834 65888 le (TFT) benzene (4- lk (1)	Flag Flag BFB)	QC Prepa Result 1.70 1.56	MDL Result <1.65 Units mg/Kg mg/Kg hyzed: 201 ration: 201	Dilution 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/ Spike <u>Amount</u> 2.00	Prepare ts Kg Percent Recovery 85 78	ed By: ME RI 2 Recovery Limits 67.6 - 150 52.4 - 130 ed By: ME
Method Blan QC Batch: 7 Prep Batch: 6 Parameter GRO Surrogate Trifluorotoluen 4-Bromofluorol Method Blan QC Batch: 7	76834 65888 le (TFT) benzene (4- 1k (1) 76857	Flag Flag BFB)	QC Prepa Result 1.70 1.56 Date Ana	MDL Result <1.65 Units mg/Kg mg/Kg	Dilution 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/ Spike <u>Amount</u> 2.00	Prepare ts Kg Percent Recovery 85 78 Analyze Prepare	ed By: ME RI 2 Recovery Limits 67.6 - 150 52.4 - 130 ed By: ME

Report Date: January 13, 2011 114-6400743				der: 1101 G/JR Hor			a 14-9 ₀	Page N Ed	umber: dy Coui	
method blank continued										
				MDL						
Parameter	Flag			Result			Units			\mathbf{RL}
Toluene				.00950			mg/Kg	r		0.02
Ethylbenzene				0.0106			mg/Kg			0.02
Xylene			<0	.00930			mg/K	<u> </u>		0.02
						Spil	(e	Percent	Be	ecovery
Surrogate	Flag	Result	Uni	ts I	Dilution	Amo		Recovery		Limits
Trifluorotoluene (TFT)	0	1.75	mg/l		1	2.0		88		.6 - 122
4-Bromofluorobenzene (4-BFB)		1.77	mg/1	-	1	2.0		88		.4 - 132
Laboratory Control Spike (Lo	,			0011.0	1.00					
QC Batch: 76727		Date An		2011-0				•	yzed By	
Prep Batch: 65793		QU Pre	paration:	2011-0	1-00			Prepa	ared By	: ME
_	LCS			—	Spil		Matrix	_		Rec.
	Resu	lt I	Units	Dil.	Amou	int 1	Result	Rec.	1	Limit
GRO	Resul 15.8	lt l 5 m	ıg/Kg	1	Amou 20.	$\frac{1}{0}$	Result <1.65	79	1	Limit
Param GRO Percent recovery is based on the s	Resul 15.8	lt l 5 m	ıg/Kg	1	Amou 20.	$\frac{1}{0}$	Result <1.65	79	1	Limit
GRO	Resul 15.8	lt l 5 m	ıg/Kg	1 the spike	Amou 20.	unt 1 0 ke duplica	Result <1.65	79	1	
GRO Percent recovery is based on the s	Resul 15.8 spike result. 1	lt l 5 m	ıg/Kg	1	Amou 20.0 e and spit Matu	unt 1 0 ke duplica rix	Result <1.65 ate resu	79 1lt.	1	Limit 9 - 95.4 RPE
GRO Percent recovery is based on the s Param	Resul 15.8 spike result. LCSD Result	lt n 8 m RPD is 1	ng/Kg pased on	1 the spike Spike	Amou 20.0 e and spit Matu	unt 1 0 ke duplica rix ılt Rec	Result <1.65 ate resu	79 1lt. Rec.	I 69.	Limit 9 - 95.4 RPE
GRO Percent recovery is based on the s Param GRO	Resul 15.8 spike result. LCSD Result 15.6	lt f RPD is f Units mg/Kg	ng/Kg pased on Dil. 1	1 the spike Spike Amount 20.0	Amou 20.4 e and spi Matu t Resu <1.6	unt 1 0 ke duplica rix 1lt Rec 55 78	Result <1.65 ate resu	79 1lt. Rec. Limit .9 - 95.4	I 69. RPD	Limit 9 - 95.4 RPD Limi
GRO	Resul 15.8 spike result. LCSD Result 15.6 spike result.	lt n RPD is l Units mg/Kg RPD is l	ng/Kg pased on Dil. 1 pased on	1 the spike Spike Amount 20.0	Amou 20.4 e and spi Matu t Resu <1.6	unt 1 0 ke duplica rix 11t Rec 35 78 ke duplica	Result <1.65 ate resu 69 ate resu	79 1lt. Rec. Limit .9 - 95.4 1lt.	1 69. RPD 1	Limit 9 - 95.4 RPD Limi 20
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s	Resul 15.8 spike result. LCSD Result 15.6 spike result. LCS	lt n RPD is l Units mg/Kg RPD is l LC	ng/Kg pased on Dil. 1 pased on SD	1 the spike Amount 20.0 the spike	Amou 20.0 e and spit Math t Resu <1.6 e and spit	unt 1 0 ke duplica rix 1lt Rec 35 78 ke duplica Spike	Result <1.65 ate resu 69 ate resu LC	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI	1 69. RPD 1	Limit 9 - 95.4 RPD Limit 20 Rec.
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate	Resul 15.8 spike result. LCSD Result 15.6 spike result. LCS Resul	It I RPD is I Units mg/Kg RPD is I LC t Res	ng/Kg pased on Dil. 1 pased on SD sult	1 the spike Amount 20.0 the spike	Amou 20.0 e and spin math Resu <1.6 e and spin Dil.	unt 1 0 ke duplica rix ult Rec 55 78 ke duplica Spike Amount	Result <1.65 ate resu 69 ate resu LCC Rec	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec.	I 69. RPD 1	Limit 9 - 95.4 RPD Limit 20 Rec. Limit
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT)	Resul 15.8 spike result. 1 LCSD Result 15.6 spike result. 1 LCS Result 1.64	It I RPD is I Units mg/Kg RPD is I LC t Res 1.8	ng/Kg pased on Dil. 1 pased on SD sult 80 n	1 the spike Amount 20.0 the spike Units ng/Kg	Amou 20.0 e and spit Math t Resu <1.6 e and spit	unt 1 0 ke duplica rix 11t Rec 35 78 ke duplica Spike Amount 2.00	Result <1.65 ate resu 69 ate resu LC: Rec 82	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90	I 69. RPD 1 0 61	Limit 9 - 95.4 RPD Limit 20 Rec. Limit .9 - 142
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s	Resul 15.8 spike result. LCSD Result 15.6 spike result. LCS Resul	It I RPD is I Units mg/Kg RPD is I LC t Res	ng/Kg pased on Dil. 1 pased on SD sult 80 n	1 the spike Amount 20.0 the spike	Amou 20.0 e and spin math t Resu <1.6 e and spin Dil. 1	unt 1 0 ke duplica rix ult Rec 55 78 ke duplica Spike Amount	Result <1.65 ate resu 69 ate resu LCC Rec	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90	I 69. RPD 1 0 61	Limit 9 - 95.4 RPD Limit 20 Rec.
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	Resul 15.8 spike result. LCSD Result 15.6 spike result. LCS Resul 1.64 1.59	It I RPD is I Units mg/Kg RPD is I LC t Res 1.8	ng/Kg pased on Dil. 1 pased on SD sult 80 n	1 the spike Amount 20.0 the spike Units ng/Kg	Amou 20.0 e and spin math t Resu <1.6 e and spin Dil. 1	unt 1 0 ke duplica rix 11t Rec 35 78 ke duplica Spike Amount 2.00	Result <1.65 ate resu 69 ate resu LC: Rec 82	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90	I 69. RPD 1 0 61	Limit 9 - 95.4 RPE Limi 20 Rec. Limit .9 - 14
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LO	Resul 15.8 spike result. I LCSD Result 15.6 spike result. I LCS Result 1.64 1.59 CS-1)	lt I B m RPD is I Units mg/Kg RPD is I LC t Res 1.3 1.7	ng/Kg pased on Dil. 1 pased on SD sult 80 n 78 m	1 the spike Amount 20.0 the spike Units ng/Kg ng/Kg	Amou 20.0 e and spir Math t Resu <1.6 e and spir Dil. 1 1	unt 1 0 ke duplica rix 11t Rec 35 78 ke duplica Spike Amount 2.00	Result <1.65 ate resu 69 ate resu LC: Rec 82	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90 89	1 69. RPD 1 0 61 65	Limit 9 - 95.4 RPL Limi 20 Rec. Limit .9 - 14 .2 - 13
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LO QC Batch: 76736	Resul 15.8 spike result. 1 LCSD Result 15.6 spike result. 1 LCS Resul 1.64 1.59 CS-1)	lt I B m RPD is I Mg/Kg RPD is I LC t Res 1.3 1.7	ng/Kg pased on Dil. 1 pased on SD sult 80 n 78 n alyzed:	1 the spike Amount 20.0 the spike Units ng/Kg ng/Kg 2011-0	Amou 20.0 e and spir Matr t Resu <1.6 e and spir Dil. 1 1 1	unt 1 0 ke duplica rix 11t Rec 35 78 ke duplica Spike Amount 2.00	Result <1.65 ate resu 69 ate resu LC: Rec 82	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90 89 Anal	1 69. RPD 1 61 65 yzed By	Eimit 9 - 95.4 RPD Limi 20 Rec. Limit .9 - 142 .2 - 132 : AR
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LO QC Batch: 76736	Resul 15.8 spike result. 1 LCSD Result 15.6 spike result. 1 LCS Resul 1.64 1.59 CS-1)	lt I B m RPD is I Mg/Kg RPD is I LC t Res 1.3 1.7	ng/Kg pased on Dil. 1 pased on SD sult 80 n 78 m	1 the spike Amount 20.0 the spike Units ng/Kg ng/Kg 2011-0	Amou 20.0 e and spir Matr t Resu <1.6 e and spir Dil. 1 1 1	unt 1 0 ke duplica rix 11t Rec 35 78 ke duplica Spike Amount 2.00	Result <1.65 ate resu 69 ate resu LC: Rec 82	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90 89 Anal	1 69. RPD 1 0 61 65	Eimit 9 - 95 RPI Limi 20 Rec. Limit .9 - 14 .2 - 13 : AR
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LO QC Batch: 76736	Resul 15.8 spike result. 1 LCSD Result 15.6 spike result. 1 LCS Result 1.64 1.59 CS-1)	lt I B m RPD is I Units mg/Kg RPD is I LC t Res 1.3 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	ng/Kg pased on Dil. 1 pased on SD sult 80 n 78 n alyzed:	1 the spike Amount 20.0 the spike Units ng/Kg ng/Kg 2011-0	Amou 20.0 2	unt 1 0 ke duplica rix ult Rec 35 78 ke duplica Spike Amount 2.00 2.00	Result <1.65 ate resu 69 ate resu LCC Rec 82 80	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90 89 Anal Prep.	1 69. RPD 1 61 65 yzed By	RPD Limit 20 Rec. Limit .9 - 14: .2 - 13: : AR : AR
GRO Percent recovery is based on the s Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Laboratory Control Spike (LO QC Batch: 76736	Resul 15.8 spike result. 1 LCSD Result 15.6 spike result. 1 LCS Resul 1.64 1.59 CS-1)	lt I B m RPD is I Mg/Kg RPD is I LC t Res 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	ng/Kg pased on Dil. 1 pased on SD sult 80 n 78 n alyzed:	1 the spike Amount 20.0 the spike Units ng/Kg ng/Kg 2011-0	Amou 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.	unt 1 0 ke duplica rix 11t Rec 35 78 ke duplica Spike Amount 2.00	Result <1.65 ate resu 69 ate resu LC: Rec 82	79 Ilt. Rec. Limit .9 - 95.4 Ilt. S LCSI c. Rec. 90 89 Anal Prep x	I 69. RPD 1 0 61 65 yzed By ared By	Eimit 9 - 95.4 RPD Limi 20 Rec. Limit .9 - 142 .2 - 132 : AR

	13, 2011			der: 110103 /JR Horz	504		Ŷ		19 of 28 1nty, NM
	LCSI)		Spike	Matrix		Rec.		RPD
Param	Resul			Amount	Result	Rec.	Limit	RPD	Limit
Chloride	103	mg/I	Kg 1	100	<2.18	103	85 - 115	7	20
Percent recovery is base	ed on the spike resu	lt. RPD i	s based on	the spike a	and spike du	iplicate re	esult.		
Laboratory Control	Spike (LCS-1)								
QC Batch: 76737			Analyzed:	2011-01-0				lyzed B	
Prep Batch: 65759		QC P	reparation:	2011-01-0	05		Prej	pared B	y: AR
		LCS			Spike		trix		Rec.
Param		lesult	Units	Dil.	Amount				Limit
Chloride		96.6	mg/Kg	1	100		.18 9	7	85 - 115
Percent recovery is base	ed on the spike resu	lt. RPD i	s based on	the spike a	nd spike dı	iplicate re	esult.		
	LCSI)		Spike	Matrix		Rec.		RPD
Param	Resul			Amount		Rec.	Limit	RPD	Limit
Chloride	104	mg/I	Kg 1	100	<2.18	104	85 - 115	7	20
QC Batch: 76742 Prep Batch: 65801			Analyzed: reparation	2011-01- : 2011-01-				alyzed I epared I	
-	1					Matriz	Pre	epared I	
Prep Batch: 65801		QC P			06	Matriz Result	Pre	epared I	3y: kg
Prep Batch: 65801	Re	QC P .CS	reparation	: 2011-01-	06 Spike		Pre k t Rec.	epared I	3y: kg Rec. Limit
Prep Batch: 65801 Param DRO	Re	QC P LCS esult 200	Preparation Units mg/Kg	: 2011-01- Dil. 1	06 Spike Amount 250	Result <14.6	Pre x t <u>Rec.</u> 5 80	epared I	3y: kg Rec.
Prep Batch: 65801 Param DRO Percent recovery is base	ed on the spike resu LCSD	QC P CCS esult 200 It. RPD i	Units mg/Kg s based on	: 2011-01- Dil. 1 the spike a Spike	06 Spike Amount 250 Ind spike du Matrix	Result <14.6 iplicate re	Pre k t Rec. 5 80 esult. Rec.	epared I 47.	3y: kg Rec. Limit 5 - 144.1 RPD
Prep Batch: 65801 Param DRO Percent recovery is base Param	ed on the spike resu LCSD Result	QC P CS esult 200 lt. RPD i Units	Units mg/Kg s based on Dil.	: 2011-01- Dil. 1 the spike a Spike Amount	06 Spike Amount 250 Ind spike du Matrix Result	Result <14.6 iplicate re Rec.	Pre k <u>k Rec.</u> 80 esult. Rec. Limit	epared H 47. RPD	3y: kg Rec. Limit 5 - 144.1 RPD Limit
Prep Batch: 65801 Param DRO Percent recovery is base Param DRO	ed on the spike resu LCSD Result 217	QC P CS esult 200 lt. RPD i Units mg/K	Units mg/Kg s based on g 1	Dil. 1 the spike a Spike Amount 250	06 Spike Amount 250 Ind spike du Matrix Result <14.6	Result <14.6 iplicate re Rec. 87 4	Pre k t Rec. 5 80 esult. Rec. Limit 7.5 - 144.1	epared I 47.	3y: kg Rec. Limit 5 - 144.1 RPD
Prep Batch: 65801 Param DRO Percent recovery is base Param DRO	ed on the spike resu LCSD Result 217 ed on the spike resu	QC P CS esult 200 lt. RPD i mg/K lt. RPD i	Units mg/Kg s based on g 1	Dil. 1 the spike a Spike Amount 250	Spike Amount 250 Ind spike du Matrix Result <14.6 Ind spike du	Result <14.6 iplicate re Rec. 87 4 iplicate re	Pre k t Rec. 5 80 esult. <u>Rec.</u> <u>Limit</u> 7.5 - 144.1 esult.	epared H 47. RPD 8	3y: kg Rec. Limit 5 - 144.1 RPD Limit 20
Prep Batch: 65801 Param DRO Percent recovery is base Param DRO Percent recovery is base	Ra 2 2 2 2 2 2 2 2 17 2 2 2 2 2 2 2 2 2 2 2 2 2	QC P CS esult 200 lt. RPD i Units mg/K lt. RPD i D	Units mg/Kg s based on Dil. g 1 s based on	: 2011-01- Dil. 1 the spike a Spike Amount 250 the spike a	06 Spike Amount 250 Ind spike du Matrix Result <14.6 Ind spike du Spike	Result <14.6 iplicate ro Rec. 87 4 iplicate ro LCS	Pre k t Rec. 80 esult. Rec. Limit 7.5 - 144.1 esult. K LCSI	epared I 47. RPD 8	3y: kg Rec. Limit 5 - 144.1 RPD Limit 20 Rec.
Prep Batch: 65801 Param DRO Percent recovery is base Param DRO Percent recovery is base Surrogate	Ra 2 2 2 2 2 2 2 2 2 2 2 2 2	QC P CS esult 200 lt. RPD i Units mg/K lt. RPD i D ult	Units mg/Kg s based on Dil. g 1 s based on Units	Dil. Dil. 1 the spike a Spike Amount 250 the spike a Dil.	06 Spike Amount 250 and spike du Matrix Result <14.6 and spike du Spike Amount	Result <14.6 iplicate ro Rec. 87 4 iplicate ro LCS Rec.	$\begin{array}{c c} & & & \\ \hline \\ \hline$	epared H 47. RPD 8	3y: kg Rec. Limit 5 - 144.1 RPD Limit 20 Rec. Limit
Prep Batch: 65801 Param DRO Percent recovery is base Param DRO Percent recovery is base	Ra 2 2 2 2 2 2 2 2 17 2 2 2 2 2 2 2 2 2 2 2 2 2	QC P CS esult 200 lt. RPD i Units mg/K lt. RPD i D ult	Units mg/Kg s based on Dil. g 1 s based on	: 2011-01- Dil. 1 the spike a Spike Amount 250 the spike a	06 Spike Amount 250 Ind spike du Matrix Result <14.6 Ind spike du Spike	Result <14.6 iplicate ro Rec. 87 4 iplicate ro LCS	$\begin{array}{c c} & & & \\ \hline \\ \hline$	epared H 47. RPD 8	3y: kg Rec. Limit 5 - 144.1 RPD Limit 20 Rec.

Report Date: January 13, 2 114-6400743	2011			order: 1101 G/JR Horz]			20 of 28 inty, NM
-	LO			. .	Spike	Mat		_		Rec.
Param			Units	Dil.	Amount	Res		Rec.		Limit
DRO	26	35 n	ng/Kg	1	250	<1	4.6	106	47.8	5 - 144.1
Percent recovery is based or	n the spike result	. RPD is	based or	n the spike	and spike d	luplicate	e result.			
	LCSD			Spike	Matrix		Rec	3		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Lim	it	RPD	Limit
DRO	257	mg/Kg	1	250	<14.6	103	47.5 -	144.1	3	20
Percent recovery is based or	n the spike result	. RPD is	based or	n the spike	and spike d	luplicate	e result.			
Т	LCS LCSI)			Spike	L	\mathbf{CS}	LCSD		Rec.
	esult Resul		Inits	Dil.	Amount		ec.	Rec.		Limit
	124 123		g/Kg	1	100		24	123		70 - 130
LaboratoryControl SpilQC Batch:76834Prep Batch:65888	ce (LCS-1)		nalyzed: paration	2011-01 a: 2011-01				•	zed By red By	
Param	Re		Units	Dil.	Spike Amount	Re	trix sult	Rec.		Rec. Limit
GRO	14	1.7 r	ng/Kg	1	20.0	<1	.65	74	69	.9 - 95.4
Percent recovery is based or	n the spike result	. RPD is	based or	n the spike	and spike d	luplicate	result.			
	LCSD			Spike	Matrix		Red	a .		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Lim		RPD	Limit
GRO	15.4	mg/Kg		20.0	<1.65	77	69.9 -		5	20
Percent recovery is based or	n the spike result			n the spike	and spike d	uplicate	result.			
v	L		CSD	-		-		T OOD		Dec
Surrogate	Res		sult	Units	-	pike jount	LCS Rec.	LCSD Rec.		Rec. Limit
Triffuorotoluene (TFT)	1.5			mg/Kg		.00	79	84		.9 - 142
4-Bromofluorobenzene (4-B)				mg/Kg		.00	77	84		.2 - 132
Laboratory Control Spil QC Batch: 76857 Prep Batch: 65908	ke (LCS-1)	Date Ar QC Pre		2011-01					zed By red By	r: ME
_	LC				Spike	Ma				Rec.
Param	Res		Units	Dil.	Amount	Res		Rec.		Limit
Benzene	2.1		ng/Kg	1	2.00)150	110		.9 - 115
'l'elseene	2.0	J2 m	ıg/Kg	1	2.00	< 0.0	0950	101	81	.9 - 113
Toluene Ethylbenzene	1.9		ng/Kg	1	2.00	<u> </u>)106	98	=	.4 - 107

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Report Date: January 13, 2011	Work Order: 11010504	Page Number: 21 of 28
114-6400743	COG/JR Horz	Eddy County, NM

control spikes continued

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Xylene	5.89	mg/Kg	1	6.00	< 0.00930	98	79.1 - 107

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

Param	f LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.30	mg/Kg	1	2.00	< 0.0150	115	81.9 - 115	5	20
Toluene	2.10	mg/Kg	1	2.00	< 0.00950	105	81.9 - 113	4	20
Ethylbenzene	2.08	mg/Kg	1	2.00	< 0.0106	104	78.4 - 107	5	20
Xylene	6.18	mg/Kg	1	6.00	< 0.00930	103	79.1 - 107	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	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	\mathbf{Limit}
Trifluorotoluene (TFT)	1.73	1.65	mg/Kg	1	2.00	86	82	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.82	1.74	mg/Kg	1	2.00	91	87	69.8 - 121

Matrix Spike (MS-1) Spiked Sample: 254664

QC Batch:	76727	Date Analyzed:	2011-01-06	Analyzed By:	\mathbf{ME}
Prep Batch:	65793	QC Preparation:	2011-01-06	Prepared By:	\mathbf{ME}

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	15.4	mg/Kg	1	20.0	<1.65	77	61.8 - 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.	\mathbf{Amount}	Result	Rec.	Limit	RPD	Limit
GRO	15.6	mg/Kg	1	20.0	<1.65	78	61.8 - 114	1	20

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

	MS	MSD			Spike	\mathbf{MS}	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.49	2.47	mg/Kg	1	2	124	124	50 - 162
4-Bromofluorobenzene (4-BFB)	2.45	2.44	mg/Kg	1	2	122	122	50 - 162

Matrix Spike (MS-1) Spiked Sample: 254673

QC Batch:	76736	Date Analyzed:	2011-01-07	Analyzed By:	\mathbf{AR}
Prep Batch:	65759	QC Preparation:	2011-01-05	Prepared By:	\mathbf{AR}

114-6400743	: January 13	, 2011				ler: 110108 /JR Horz	504		Pag		er: 22 of 2 ounty, NI
			MS				Spike		atrix		Rec.
Param			Resi		Units	Dil.	Amount		esult	Rec.	Limit
Chloride			1040	00	mg/Kg	100	10000	1	270	91	85 - 11
Percent recov	very is based	on the sp	oike result.	RPD is	based on	the spike a	nd spike d	uplicate	result.		
			MSD			Spike	Matrix		Rec.		RPI
Param			Result	Units	Dil.	Amount	Result	Rec.	Limit	RPI	
Chloride			11100	mg/K	g 100	10000	1270	98	85 - 11	5 6	20
Percent recov	very is based	on the sp	oike result.	RPD is	based on	the spike a	nd spike d	uplicate	result.		
Matrix Spil QC Batch:	ke (MS-1) 76737	Spiked	Sample: 25		nalyzed:	2011-01-0)7		A	nalyzed	Bv: AR
Prep Batch:	65759				eparation:	2011-01-(repared	•
			MS	3			Spike	Μ	atrix		Rec.
Param			Resu		Units	Dil.	Amount		esult	Rec.	Limit
Chloride			1110	00	mg/Kg	100	10000	1	160	99	85 - 11
Param Chloride			MSD Result 11700	Units		Spike Amount	Matrix Result	Rec.	Rec. Limit	RPI	RPI) Limi
onoriue			11.00	mg/K	g 100	10000	1160	105	85 - 113	5 5	20
Percent recov	very is based		oike result.	RPD is						5 õ	20
<u> </u>	ke (MS-1)			RPD is	based on	the spike a	nd spike di		result.		
Percent recov Matrix Spil	-		oike result.	RPD is 54664 Date A		the spike a 2011-01-	nd spike di 06		result.	5 5 Analyzec Preparec	By: kg
Percent recov Matrix Spil QC Batch: Prep Batch:	ke (MS-1) 76742		oike result. Sample: 25 MS	RPD is 64664 Date A QC Pro	based on Analyzed: eparation:	the spike a 2011-01- 2011-01-	nd spike dr 06 06 Spike	uplicate Matr	result.	Analyzec Preparec	By: kg By: kg Rec.
Percent recov Matrix Spil QC Batch: Prep Batch: Param	ke (MS-1) 76742		oike result. Sample: 25 MS Resul	RPD is 64664 Date A QC Pro	based on Analyzed: eparation: Units	the spike a 2011-01-	nd spike dr 06 06 Spike Amount	uplicate Matr Resu	result. ix lt Re	Analyzec Preparec c.	By: kg By: kg Rec. Limit
Percent recov Matrix Spil QC Batch: Prep Batch: Param DRO	ke (MS-1) 76742	Spiked	oike result. Sample: 25 MS Resul 161	RPD is 64664 Date A QC Pro- lt	based on Analyzed: eparation: Units ng/Kg	the spike a 2011-01- 2011-01- Dil. 1	nd spike dr 06 06 Spike Amount 250	uplicate Matr Resu <14.	ix 1t Re 6 64	Analyzec Preparec c.	By: kg By: kg Rec. Limit
Percent recov Matrix Spil QC Batch: Prep Batch: Prep Batch: Param DRO Percent recov	ke (MS-1) 76742 65801	Spiked	oike result. Sample: 25 MS Resul 161 Dike result. MSD	RPD is 64664 Date A QC Pr lt n RPD is	based on Analyzed: eparation: Units ng/Kg based on	the spike a 2011-01- 2011-01- Dil. 1 the spike a Spike	nd spike di 06 06 <u>Spike</u> <u>Amount</u> 250 nd spike di Matrix	uplicate Matr Resu <14.	ix lt Red 6 64 result. Rec.	Analyzec Preparec c.	l By: kg By: kg Rec. Limit 1.7 - 152. RPI
Percent recov Matrix Spil QC Batch: Prep Batch: Param DRO Percent recov Param	ke (MS-1) 76742 65801	Spiked	oike result. Sample: 25 MS Resul 161 Dike result. MSD Result	RPD is 64664 Date A QC Pro- lt RPD is Units	based on Analyzed: eparation: Units ng/Kg based on Dil.	the spike a 2011-01- 2011-01- Dil. 1 the spike a Spike Amount	nd spike di 06 06 Amount 250 nd spike di Matrix Result	Matr Resu <14. uplicate Rec.	ix lt Red 6 64 result. Rec. Limit	Analyzec Preparec c. RPI	By: kg By: kg Rec. Limit 1.7 - 152. RPE D Limi
Percent recov Matrix Spil QC Batch: Prep Batch: Param DRO Percent recov Param	ke (MS-1) 76742 65801	Spiked	oike result. Sample: 25 MS Resul 161 Dike result. MSD Result	RPD is 64664 Date A QC Pr lt n RPD is	based on Analyzed: eparation: Units ng/Kg based on Dil.	the spike a 2011-01- 2011-01- Dil. 1 the spike a Spike	nd spike di 06 06 <u>Spike</u> <u>Amount</u> 250 nd spike di Matrix	Matr Resu <14. uplicate Rec.	ix lt Red 6 64 result. Rec.	Analyzec Preparec c. RPI	l By: kg By: kg Rec. Limit 1.7 - 152. RPI
Percent recov Matrix Spil QC Batch: Prep Batch: Prep Batch: Param DRO Percent recov Param DRO	ke (MS-1) 76742 65801	Spiked	oike result. Sample: 25 MS Resul 161 Dike result. MSD Result 162	RPD is 64664 Date A QC Pro- lt RPD is Units mg/Kg	based on Analyzed: eparation: Units ng/Kg based on Dil. 1	the spike a 2011-01- 2011-01- Dil. 1 the spike a Spike Amount 250	nd spike dr 06 06 Matrix Result <14.6	Matr Resu <14. uplicate Rec. 65	result. ix lt Re- 6 64 result. Rec. Limit 11.7 - 152.	Analyzec Preparec c. RPI	By: kg By: kg Rec. Limit 1.7 - 152. RPI D Limi
Percent recov Matrix Spil QC Batch: Prep Batch: Prep Batch: Param DRO Percent recov Param DRO	ke (MS-1) 76742 65801 very is based	Spiked	oike result. Sample: 25 MS Resul 161 Dike result. MSD Result 162	RPD is 64664 Date A QC Pro- lt RPD is Units mg/Kg	based on Analyzed: eparation: Units ng/Kg based on Dil. 1	the spike a 2011-01- 2011-01- Dil. 1 the spike a Spike Amount 250	nd spike dr 06 06 Matrix Result <14.6	Matr Resu <14. uplicate Rec. 65	result. ix lt Rev 6 - 64 result. Rec. Limit 11.7 - 152. result.	Analyzec Preparec c. RPI	By: kg By: kg Rec. Limit 1.7 - 152. RPI D Limi
Percent recov Matrix Spil QC Batch: Prep Batch: Prep Batch: Param DRO Percent recov Param DRO	ke (MS-1) 76742 65801 very is based	Spiked on the sp	oike result. Sample: 25 MS Resul 161 Dike result. MSD Result 162 Dike result.	RPD is 64664 Date A QC Pro- lt RPD is Units mg/Kg RPD is	based on Analyzed: eparation: Units ng/Kg based on Dil. 1	the spike a 2011-01- 2011-01- Dil. 1 the spike a Spike Amount 250	nd spike do 06 06 Matrix Result <14.6 nd spike do	Matr Resu <14. uplicate Rec. 65 uplicate	ix lt Red 6 64 result. Limit 11.7 - 152. result. S M	Analyzec Preparec c. 1 RPJ 3 1	l By: kg By: kg Limit L.7 - 152. RPE D Limi 20

Report Date: January 13, 114-6400743	2011			Order: 11010 OG/JR Horz			Pa	ge Numbe Eddy C	r: 23 of 28 ounty, NM
Matrix Spike (MS-1)	Spiked Samp	ole: 2546'	71						
QC Batch: 76813 Prep Batch: 65869			ate Analyzec C Preparatic					Analyzed Prepared	
		MS			Spike	Mat			Rec.
Param		Result	Units	Dil.	Amount	Res		ec.	Limit
DRO		220	mg/Kg	1	250	<14		38 1	1.7 - 152.3
Percent recovery is based o	n the spike re	esult. RP	'D is based o	on the spike	and spike d	uplicate	result.		
Param	MS Rest		nits Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPI	RPD D Limit
DRO	22		$\frac{1}{g/Kg} = 1$	250	<14.6	<u>88</u>	$\frac{11.7 - 152}{11.7 - 152}$		$\frac{5}{20}$
								2.0 0	<i>²⁰</i>
Percent recovery is based o	n the spike re	sun. Rr	D is based o	on the spike	and spike d	upiicate	resuit.		
	MS N	MSD			Spike	1		MSD	Rec.
		lesult	Units	Dil.	Amount			Rec.	Limit
n-Tricosane	107	105	mg/Kg	1	100	1	.07	105	70 - 130
Matrix Spike (MS-1)	Spiked Samp	ole: 25467	71						
		ole: 25467 Da		: 2011-01-	-11			Analyzed I Prepared I	By: ME
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888		ble: 25467 Da QC MS	71 ate Analyzed C Preparatio	: 2011-01- n: 2011-01-	-11 -11 Spike	Ma	, I	Analyzed I Prepared I	By: ME 3y: ME Rec.
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param		ble: 2546 Da QC MS Result	71 ate Analyzed C Preparation Units	: 2011-01- n: 2011-01- Dil.	-11 -11 Spike Amount	Ma Re	I I I I I I I I I I I	Analyzed I Prepared I Rec.	By: ME 3y: ME Rec. Limit
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO	Spiked Samp	ble: 25467 Da QC MS Result 17.1	71 ate Analyzed C Preparation Units mg/Kg	: 2011-01- n: 2011-01- Dil. 1	-11 -11 Spike <u>Amount</u> 20.0	Ma Re <1	I I I I I I I I I I I I I I I I I I I	Analyzed I Prepared I Rec.	By: ME 3y: ME Rec.
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param	Spiked Samp	ble: 25467 Da QC MS Result 17.1	71 ate Analyzed C Preparation Units mg/Kg	: 2011-01- n: 2011-01- Dil. 1	-11 -11 Spike <u>Amount</u> 20.0	Ma Re <1	I I I I I I I I I I I I I I I I I I I	Analyzed I Prepared I Rec.	By: ME 3y: ME Rec. Limit
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO	Spiked Samp	ble: 25467 Da QC MS Result 17.1 esult. RP	71 ate Analyzed C Preparation Units mg/Kg	: 2011-01- n: 2011-01- Dil. 1	-11 -11 Spike <u>Amount</u> 20.0	Ma Re <1	I I I I I I I I I I I I I I I I I I I	Analyzed I Prepared I Rec.	By: ME 3y: ME Rec. Limit
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO	Spiked Samp n the spike re	ble: 2546 Da QC MS Result 17.1 esult. RP	71 ate Analyzed C Preparation Units mg/Kg	: 2011-01- n: 2011-01- 	-11 -11 Spike Amount 20.0 and spike d	Ma Re <1	Itrix sult 1 .65 result.	Analyzed I Prepared I Rec.	By: ME 3y: ME Rec. Limit 61.8 - 114 RPD
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o	Spiked Samp n the spike re MS	ble: 2546 Da QC MS Result 17.1 esult. RP SD sult U	71 ate Analyzed C Preparation Units mg/Kg PD is based o	: 2011-01- n: 2011-01- Dil. 1 n the spike : Spike	-11 -11 Amount 20.0 and spike d Matrix	Ma Re <1 uplicate	trix sult 1 65 result. Rec.	Analyzed Prepared I Rec. 81 RPL	By: ME 3y: ME Rec. Limit 61.8 - 114 RPD
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o Param	Spiked Samp n the spike re MS Res 16.	ble: 25467 Da QC MS Result 17.1 esult. RP SD sult U .9 ma	71 ate Analyzed C Preparation Units mg/Kg PD is based of Units Dil. g/Kg 1	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0	-11 -11 Spike Amount 20.0 and spike d Matrix Result <1.65	Ma Re <1 uplicate Rec. 80	Itrix sult 1 1.65 result. Rec. Limit 61.8 - 11	Analyzed Prepared I Rec. 81 RPL	By: ME 3y: ME Rec. Limit 61.8 - 114 RPD Limit
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o Param GRO	Spiked Samp n the spike re MS Res 16.	ble: 25467 Da QC MS Result 17.1 esult. RP SD sult U .9 ma	71 ate Analyzed C Preparation Units mg/Kg PD is based of Units Dil. g/Kg 1	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0	-11 -11 Spike Amount 20.0 and spike d Matrix Result <1.65 and spike d	Ma Re <1 uplicate Rec. 80	Itrix sult 1 1.65 result. Rec. Limit 61.8 - 11	Analyzed Prepared I Rec. 81 RPL	By: ME 3y: ME Rec. Limit 61.8 - 114 RPD Limit
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o Param GRO Percent recovery is based o Surrogate	Spiked Samp n the spike re MS Res 16.	ble: 25467 Da QC MS Result 17.1 esult. RP SD sult U .9 mf esult. RP	71 ate Analyzed C Preparation Units mg/Kg PD is based o Units Dil. g/Kg 1 PD is based o	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0	-11 -11 Spike Amount 20.0 and spike d Matrix Result <1.65 and spike d	Ma Re <1 uplicate Rec. 80 uplicate	H Intrix sult 1 1.65 result. Rec. Limit 61.8 - 1 result.	Analyzed Prepared I Rec. 81 RPE 14 1	By: ME By: ME Rec. Limit 61.8 - 114 RPD Limit 20
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o Param GRO Percent recovery is based o Surrogate Trifluorotoluene (TFT)	Spiked Samp n the spike re MS Res 16. n the spike re	ble: 25467 Da QC MS Result 17.1 esult. RP SD sult U .9 mi esult. RP MS Result 2.28	71 ate Analyzed C Preparation Units mg/Kg PD is based o Units Dil. g/Kg 1 PD is based o MSD	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0 n the spike a Units mg/Kg	-11 -11 Spike Amount 20.0 and spike d Matrix Result <1.65 and spike d	Ma Re <1 uplicate Rec. 80 uplicate Spike	trix sult 1 65 result. Rec. Limit 61.8 - 1 result. MS	Analyzed Prepared I Rec. 81 RPI 14 1 MSD	By: ME By: ME Rec. Limit 61.8 - 114 RPD Limit 20 Rec.
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o Param GRO Percent recovery is based o	Spiked Samp n the spike re MS Res 16.	ble: 25467 Da QC MS Result 17.1 esult. RP SD sult U .9 mg esult. RP MS	71 ate Analyzed C Preparation Units mg/Kg PD is based o Units Dil. g/Kg 1 PD is based o MSD	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0 n the spike a	-11 -11 Spike Amount 20.0 and spike d Matrix Result <1.65 and spike d	Ma Re <1 uplicate Rec. 80 uplicate Spike	trix sult 1 65 result. Rec. Limit 61.8 - 1 result. MS	Analyzed Prepared I Rec. 81 RPI 14 1 MSD	By: ME By: ME Rec. Limit 61.8 - 114 RPD Limit 20 Rec.
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o Param GRO Percent recovery is based o Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-E	Spiked Samp n the spike re MS Res 16. n the spike re	Dele: 25467 Da QC MS Result 17.1 esult. RP SD sult U .9 mi esult. RP MS Result 2.28 2.33	71 ate Analyzed C Preparation Units mg/Kg PD is based of Units Dil. g/Kg 1 PD is based of MSD Result 2.22 2.29	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0 n the spike a Units	-11 -11 Spike Amount 20.0 and spike d Matrix Result <1.65 and spike d Spil. A	Ma Re <1 uplicate Rec. 80 uplicate Spike mount	trix sult 1 65 result. Rec. Limit 61.8 - 11 result. MS Rec.	Analyzed Prepared I Rec. 81 <u>RPI</u> 14 1 MSD Rec.	By: ME 3y: ME Rec. Limit 61.8 - 114 RPD Limit 20 Rec. Limit 50 - 162
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based of Param GRO Percent recovery is based of Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-E Matrix Spike (MS-1)	Spiked Samp n the spike re MS Res 16. n the spike re	Dele: 25467 Da QC MS Result 17.1 esult. RP SD sult U .9 ma esult. RP MS Result 2.28 2.33 Dele: 25503	71 ate Analyzed C Preparation Units mg/Kg PD is based of Units Dil. g/Kg 1 PD is based of MSD Result 2.22 2.29 31	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0 n the spike a Units mg/Kg mg/Kg	-11 -11 Spike Amount 20.0 and spike d Matrix Result <1.65 and spike d Dil. A 1 1	Ma Re <1 uplicate Rec. 80 uplicate Spike mount 2	trix sult 1 65 result. Rec. Limit 61.8 - 11 result. MS Rec. 114 116	Analyzed Prepared I Prepared I Rec. 81 RPI 14 1 MSD Rec. 111 114	By: ME By: ME Rec. Limit 61.8 - 114 RPD Limit 20 Rec. Limit 50 - 162 50 - 162
Matrix Spike (MS-1) QC Batch: 76834 Prep Batch: 65888 Param GRO Percent recovery is based o Param GRO Percent recovery is based o Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-E	Spiked Samp n the spike re MS Res 16. n the spike re	De: 2546 Da QC MS Result 17.1 esult. RP SD sult U .9 ma esult. RP MS Result 2.28 2.33 De: 25503 Da	71 ate Analyzed C Preparation Units mg/Kg PD is based of Units Dil. g/Kg 1 PD is based of MSD Result 2.22 2.29	: 2011-01- n: 2011-01- Dil. 1 n the spike a Spike Amount 20.0 n the spike a Units mg/Kg mg/Kg mg/Kg	$\begin{array}{c} -11 \\ -11 \\ \\ Spike \\ Amount \\ \hline 20.0 \\ and spike d \\ \\ Matrix \\ Result \\ \hline <1.65 \\ and spike d \\ \\ \hline \\ Dil. \\ A \\ 1 \\ 1 \\ 1 \\ \end{array}$	Ma Re <1 uplicate Rec. 80 uplicate Spike mount 2	H trix sult 1 65 result. Rec. Limit 61.8 - 1 result. MS Rec. 114 116	Analyzed Prepared I Rec. 81 RPL 14 1 MSD Rec. 111	By: ME By: ME Rec. Limit 61.8 - 114 RPD Limit 20 Rec. Limit 50 - 162 50 - 162 50 - 162

Report Date 114-6400743	e: January 13, 3	2011			order: 11010 G/JR Horz			P	<u> </u>		24 of 28 nty, NM
			MS			Spike		atrix			Rec.
Param	· · · · ·		Result	Units	Dil.	Amoun		sult	Rec.		Limit
Benzene		П	2.48	mg/Kg	1	2.00		0150	124		.5 - 112
Toluene			2.25	mg/Kg	1	2.00		00950	112		.4 - 113
Ethylbenzen	e		2.25	mg/Kg	1	2.00		0106	112		.9 - 114
Xylene			6.77	mg/Kg	1	6.00	0.1	443	110	8	4 - 114
Percent reco	very is based o	on the spike re	sult. RPD	is based or	n the spike	and spik	e duplicate	e result.			
_		MS			Spike	Matr		Re			RPD
Param			sult Uni		Amount	Resu				RPD	Limit
Benzene		12 2.4	0/		2.00	< 0.01				3	20
Toluene		2.1	0/		2.00	< 0.009				2	20
Ethylbenzen	e	2.2	0,		2.00	< 0.01		83.9 -		1	20
Xylene		6.	69 mg/	Kg 1	6.00	0.144	3 109	84 -	114	1	20
Percent reco	very is based o	on the spike re	sult. RPD	is based or	n the spike	and spik	e duplicate	e result.			
~			MS	MSD			Spike	MS	MSE		Rec.
Surrogate		13 14	Result	Result	Units	Dil.	Amount	Rec.	Rec.		Limit
Trifluorotolu			2.35	2.42	mg/Kg	1	2	118	121		.3 - 117
<u>4-Bromofluo</u>	robenzene (4-I	BFB)	2.29	2.38	mg/Kg	1	2	114	119	30	.5 - 129
Standard (CCV-1)										
QC Batch:	76727		Date	Analyzed:	2011-01-0)6			Analy	zed By	: ME
			CCVs	С	CVs	CCV	s	Percen	t		
			True	Fe	ound	Perce	nt	Recover	ry		Date
Param	Flag	Units	Conc.	С	onc.	Recove	ery	Limits	3	Ar	nalyzed
GRO		mg/Kg	1.00	0	.914	91		80 - 12	0	201	1-01-06
Standard (QC Batch:	CCV-2) 76727		Date	Analyzed:	2011-01-0	06			Analy	zed By	: ME
_		TT 1.	CCVs True		CVs ound	CCV Perce		Percen Recover			Date

Standard (CCV-3)

Param

GRO

QC Batch: 76727

Date Analyzed: 2011-01-06

Conc.

0.913

Recovery

91

Analyzed By: ME

Analyzed

2011-01-06

Limits

80 - 120

¹¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ¹²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Conc.

1.00

¹³Surrogate out due to peak interference.

Flag

Units

mg/Kg

¹⁴Surrogate out due to peak interference.

ICVs True Conc. 100	CCVs Found Conc. 0.976 lyzed: 2011-0 ICVs Found Conc. 97.6 lyzed: 2011-0 CCVs Found CCVs Found Conc.	ICVs Percent Recovery 98 1-07 CCVs Percent	Percent Recovery Limits 85 - 115	Date Analyzed 2011-01-06 yzed By: AR Date Analyzed 2011-01-07 yzed By: AR Date
Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc.	lyzed: 2011-0 ICVs Found Conc. 97.6 lyzed: 2011-0 CCVs Found	I-07 ICVs Percent Recovery 98 I-07 CCVs Percent	Anal Percent Recovery Limits 85 - 115 Anal Percent	yzed By: AR Date Analyzed 2011-01-07 yzed By: AR
ICVs True Conc. 100 Date Ana CCVs True Conc.	ICVs Found Conc. 97.6 lyzed: 2011-01 CCVs Found	ICVs Percent Recovery 98 1-07 CCVs Percent	Percent Recovery Limits 85 - 115 Anal Percent	Date Analyzed 2011-01-07 yzed By: AR
ICVs True Conc. 100 Date Ana CCVs True Conc.	ICVs Found Conc. 97.6 lyzed: 2011-01 CCVs Found	ICVs Percent Recovery 98 1-07 CCVs Percent	Percent Recovery Limits 85 - 115 Anal Percent	Date Analyzed 2011-01-07 yzed By: AR
True Conc. 100 Date Ana CCVs True Conc.	Found Conc. 97.6 lyzed: 2011-01 CCVs Found	Percent Recovery 98 1-07 CCVs Percent	Recovery Limits 85 - 115 Anal Percent	Analyzed 2011-01-07 yzed By: AR
100 Date Ana CCVs True Conc.	97.6 lyzed: 2011-01 CCVs Found	98 I-07 CCVs Percent	85 - 115 Anal Percent	2011-01-07 yzed By: AR
Date Ana CCVs True Conc.	lyzed: 2011-01 CCVs Found	I-07 CCVs Percent	Anal Percent	yzed By: AR
True Conc.	Found	Percent		Date
Conc.				
100		Recovery	Limits	Analyzed
	102	102	85 - 115	2011-01-07
Data Ana	lugod: 2011.01	07	Anal	yzed By: AR
			Allal	yzeu by. An
ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
100	97.9	98	85 - 115	2011-01-07
Date Ana	lyzed: 2011-01	l-07	Anal	yzed By: AR
CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
				Analyzed 2011-01-07
	ICVs True Conc. 100 Date Ana CCVs	ICVs ICVs True Found Conc. Conc. 100 97.9 Date Analyzed: 2011-01 CCVs CCVs True Found Conc. Conc.	ICVsICVsICVsTrueFoundPercentConc.Conc.Recovery10097.998	ICVsICVsICVsPercentTrueFoundPercentRecoveryConc.Conc.RecoveryLimits10097.99885 - 115Date Analyzed:2011-01-07Analyzed:CCVsCCVsCCVsPercentTrueFoundPercentRecoveryConc.Conc.RecoveryLimits

Report Da 114-640074	te: January 1 3	3, 2011	V	Work Order: 11 COG/JR Ho			umber: 26 of 28 ldy County, NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	200	80	80 - 120	2011-01-06
Standard	(CCV-2)						
QC Batch:	76742		Date An	alyzed: 2011-()1-06	An	alyzed By: kg
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO	Tag	mg/Kg	250	251	100	80 - 120	2011-01-06
Standard QC Batch:	```		Date An	alyzed: 2011-()1-06	An	alyzed By: kg
D	Elect	The	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param DRO	Flag	Units mg/Kg	<u>Conc.</u> 250	<u>Conc.</u> 224	Recovery 90	Limits 80 - 120	Analyzed 2011-01-06
Standard QC Batch:	(CCV-2) 76813		Date An	alyzed: 2011-()1-10	An	alyzed By: kg
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	286	114	80 - 120	2011-01-10
Standard	, ,				11.10		
QC Batch:	76813		Date An CCVs	alyzed: 2011-0 CCVs	CCVs	Ana	alyzed By: kg
Param DRO	Flag	Units mg/Kg	True Conc. 250	Found Conc. 253	Percent Recovery 101	Recovery Limits 80 - 120	Date Analyzed 2011-01-10
Standard	(CCV-1)						
QC Batch:	76834		Date Ana	lyzed: 2011-0	1-11	Anal	yzed By: ME

114-640074	ate: January 13, 43	2011		Order: 1101 OG/JR Hor			umber: 27 of dy County, N
Param	Flag	Units	True	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyze
GRO		mg/Kg		0.877	88	80 - 120	2011-01-
Standard	(CCV-2)						
QC Batch:	76834		Date Analyzed	d: 2011-01-	-11	Analy	yzed By: M
_			True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param GRO	Flag	Units mg/Kg		Conc. 0.988	Recovery 99	Limits 80 - 120	Analyze 2011-01-
	(CCV-1) 76857		Date Analyzed	l: 2011-01-	-12	Analy	yzed By: M
QC Batch:	76857		Date Analyzed	l: 2011-01-	-12	Analy	vzed By: M
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyze
Benzene	1 148	mg/Kg	0.100	0.114	114	80 - 120	2011-01-
Toluene		mg/Kg	0.100	0.102	102	80 - 120	2011-01-
Ethylbenze	ene	mg/Kg	0.100	0.0987	99	80 - 120	2011-01-
Xylene		mg/Kg	0.300	0.295	98	80 - 120	2011-01-
Standard	(CCV-2)						
QC Batch:	76857		Date Analyzed	l: 2011-01-	-12	Analy	zed By: M
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
			0	Conc.	Recovery	Limits	Analyze
Param	Flag	Units	Conc.				
Benzene	Flag	mg/Kg	0.100	0.111	111	80 - 120	2011-01-
Benzene Toluene		mg/Kg mg/Kg	0.100 0.100	0.111 0.103	103	80 - 120	2011-01-
Benzene		mg/Kg	0.100	0.111			

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Report Date: Ja 114-6400743	nuary 13, 201			k Order: 11010 COG/JR Horz		Ý	umber: 28 of 28 dy County, NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.112	112	80 - 120	2011-01-12
Toluene		mg/Kg	0.100	0.104	104	80 - 120	2011-01-12
Ethylbenzene		mg/Kg	0.100	0.101	101	80 - 120	2011-01-12
Xylene		mg/Kg	0.300	0.297	99	80 - 120	2011-01-12

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619						AH-Z		0-1'	<i>i</i> ′	BEG							X								K				
669						HH-2		1-1.5		SEO															M				
670						4H-Z		2-2.5	· · a	rêd.															X				
671						AH-Z		3-3.5		ÊR															X				
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Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.