SITE INFORMATION

Report Type: Closure Report	Rep	oort T	vpe:	Closure	Repo	rt
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		Report	Type: Clos	ure Rep	oort	
General Site Info	ormation:			Pour the same of		
Site:		Berry A Fed				
Company:		COG Operat				
Section, Townsl	hip and Range	Unit C	Sec 21	17S	30E	
Lease Number:	<u>inp unu nunge</u>	54988		<u> </u>	I	
County:		Eddy Count	v		<u> </u>	· · · · · · · · · · · · · · · · · · ·
GPS:			, 32.82643° N	· · · ·	I	103.980206° W
Surface Owner:	· · ·	Federal				
Mineral Owner:			······································	<u> </u>		• ••••••••••••••••••••••••••••••••••••
Directions:		From the inter	section of Hwv 82 a	nd CR 219 tr	avel 0.4m nor	th on CR 219 turn left, travel 100' to
		site.	,			
Release Data:				n de trans		
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Type Release:		Produced Flu	uid			
Source of Contar	mination:	Casing				
Fluid Released:		550 bbls				·······
Fluids Recovered	d:	520 bbls				·····
	The second				and a second and a s	
Name:	Pat Ellis	All a second and the second		<u></u>	Kim Dorey	en din kerendari bir dan sama kerendari din bir
Company:	COG Operating, LL	<u> </u>			Tetra Tech	
					· · · · · · · · · · · · · · · · · · ·	Noring
Address:	550 W. Texas Ave.	Ste. 1300			1910 N. Big S	pring
P.O. Box						
City:	Midland Texas, 797	01			Midland, Texa	1S
Phone number:	(432) 686-3023				(432) 631-034	48
Fax:	(432) 684-7137					
Email:	pellis@conchoreso	urces.com		and a second with	kim.dorey@1	tetratech.com
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50-99 ft	· · ·		10			
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Water Source >1,0	000 ft., Private >200 ft	0		•	0	
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Surface Body of V	Nater:		Ranking Score			Site Data
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		Accent	able Soil RRAL (n	na/ka) (
		Benzene	Total BTEX	TPH		OCT 17 2011
		10	50	5,000		
			50	5,000	I I	AIRAOOD ADTEOLA

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NMOCD ARTESIA

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October 4, 2011

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., Berry A Federal #1 Well, Unit C, Section 21, Township 17 South, Range 30 East, Eddy County, New Mexico.

Mr. Bratcher:

TETRA TECH

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Berry A Federal #1 Well, Unit C, Section 21, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.82643°, W 103.98020°. The site location is shown on Figures 1 and 2.

Background

On May 18, 2010, the leak was caused by a casing failure during the process of plugging the well and released approximately five hundred fifty (550) barrels of produced fluid. During the release, COG personnel immediately excavated an area 30' x 30' x 4' deep next to the well to contain the fluids. The fluids were pickup using vacuum trucks and recovered five hundred twenty (520) barrels of standing fluids. The initial C-141 form is enclosed in Appendix A.

According to the BLM inspection, the spill initiated from the well and contained in the 30' x 30' area near the well. However, some fluids did migrate on the well pad, which measured approximately 80' x 140'.

Groundwater

No water wells were listed within Section 21. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 300' below surface. In discussions with the NMOCD and review of available data, groundwater may absent in this area. The water 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 or potential lack thereof, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On August 11, 2010, Tetra Tech personnel sampled the spill area and installed one (1) auger hole (AH-1) using a stainless steel hand auger. The auger hole was installed in the backfilled containment area (30' x 30') near the well. 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 sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

The sample was below the RRAL for BTEX and TPH. Elevated chloride concentrations were detected at AH-1 of 16,800 mg/kg at 4.0'-4.5' below surface. Deeper samples could not be collected due to a dense caliche formation. In order to delineate the chloride impact, deeper samples would need to be collected using an air rotary rig.

On November 15, 2010, Tetra Tech personnel were onsite to reevaluate the area of AH-1. According to the BLM initial inspection, the spill had also migrated on the pad, which was not discussed on the C-141. Based on an impact map provided by the BLM, the impacted areas were shown east, west and south of the well pad. In addition, it appeared the fluids migrated west off-the-pad-onto-a-closed-reserve-pit.—A-total-of-four-(4)boreholes (BH-1 through BH-4) were installed to assess the spill area. Borehole results are summarized in Table 1.

Referring to Table 1, none of the selected samples exceeded the RRAL for TPH and BTEX. Boreholes (BH-2 and BH-3) did not show a significant chloride impact to the soils, with a chloride high of 504 mg/kg at BH-3 (0-1'). The area of borehole (BH-4) showed an elevated chloride



concentration of 19,800 mg/kg (0-1') which decline to <200 (5.0') below surface. In the area of BH-1, elevated chloride concentrations were detected at 5.0' (33,400 mg/kg) and declined with depth at 10.0' (9,540 mg/kg), 15.0' (4,100 mg/kg) and 30.0' (234 mg/kg). The borehole sample at 60.0' showed a chloride concentration spike of 3,030 mg/kg. The lithology of the borehole indicated that a dense dry clay barrier was encountered at 60.0'. It would appear that residual chloride impact from this spill was contained at the top of this seemingly impermeable barrier. The boring log for BH-1 is shown in Appendix D.

Remediation Action and Closure

As approved by the NMOCD, Tetra Tech personnel supervised the excavation of the site from March 21-23, 2011. The excavation depths are highlighted in Table 1 and shown on Figure 4. The area of AH-1 (BH-1) was excavated to a depth of approximately 15.0' below surface then backfilled with clean material to approximately 4.0'. A 40 mil liner was then installed in the bottom and backfilled the excavation to grade with clean material. The area of AH-4 as excavated to a depth of approximately 3.0' below surface.

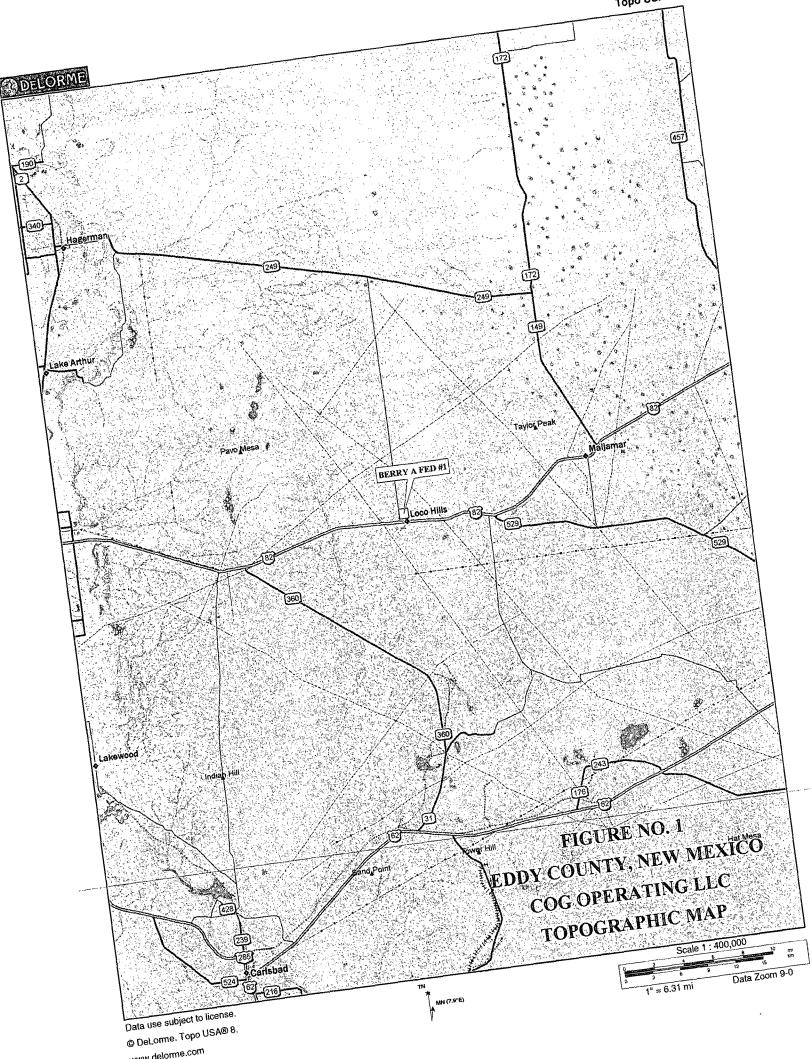
As requested by the BLM, additional excavation was performed around the well pad area. Confirmation samples (CS-1 through CS-7) were collected from the bottom of the excavation and the results are summarized on Table 2. Approximately 1300 yards³ of impacted soil was hauled to CRI for proper disposal. Photos of the excavation and liner installation are attached.

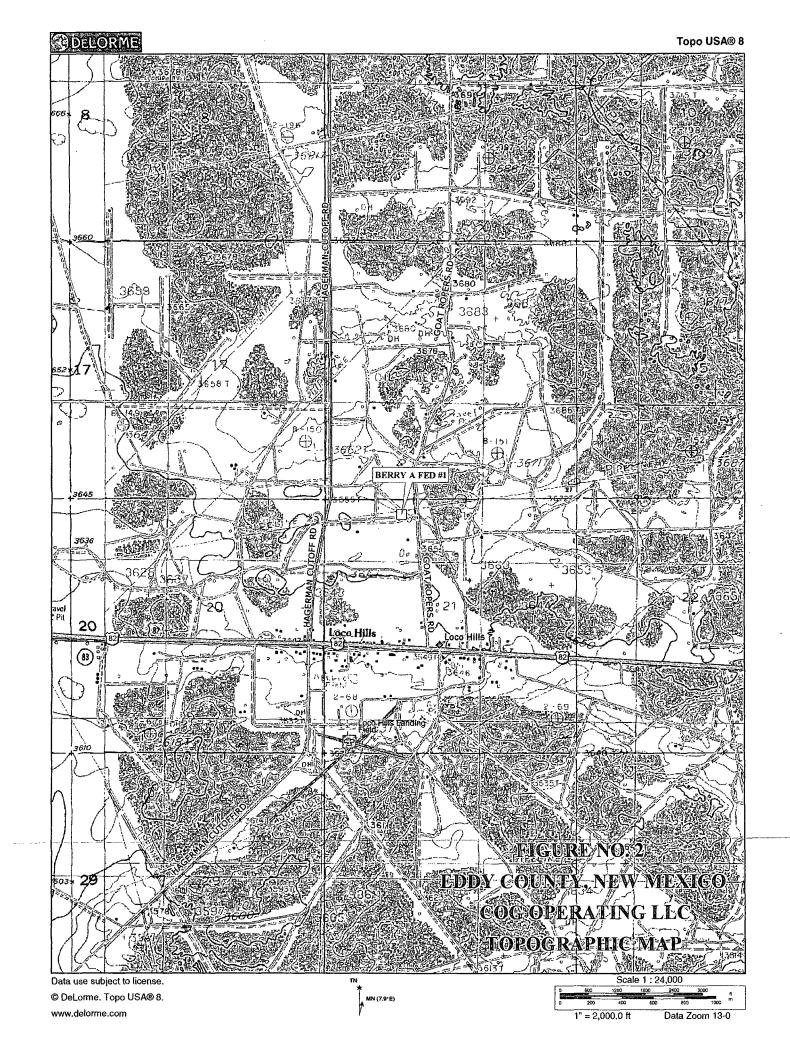
Based upon the investigation and remediation performed at this site, COG requests closure of this site. The final C-141 is enclosed in Appendix A. If you require any additional information or have any questions, please call at (432) 682-4559.

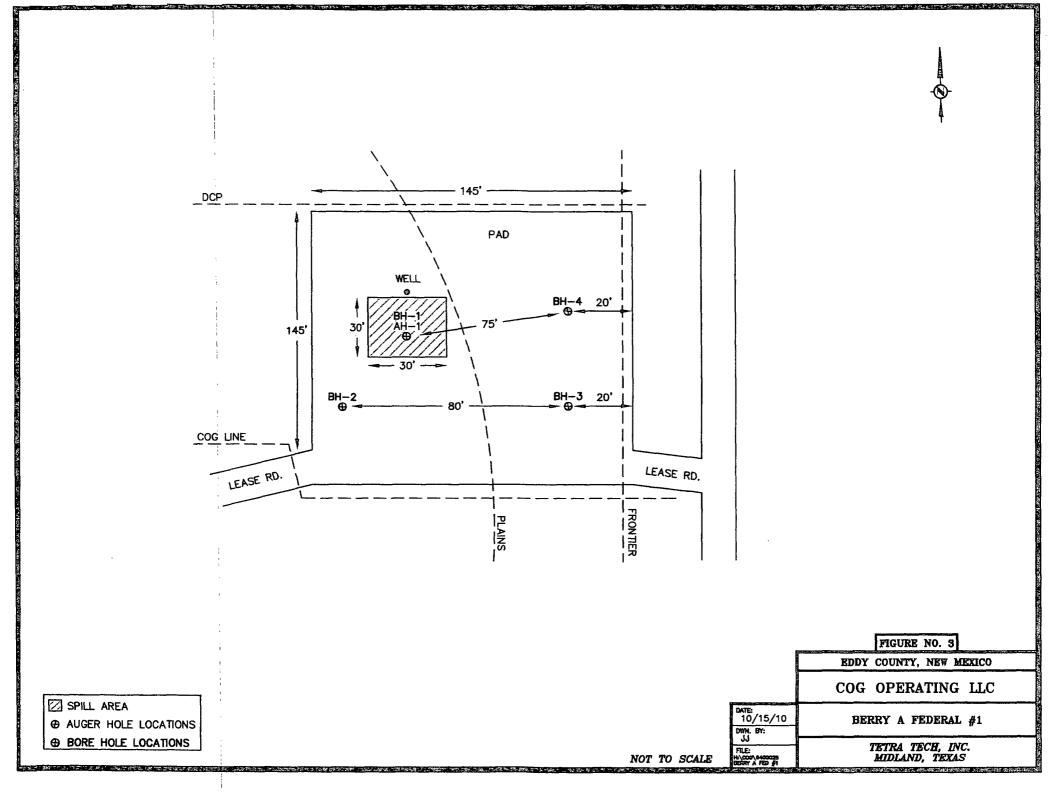
Respectfully submitted, TETRATECT Ike Tavarez Project Manager

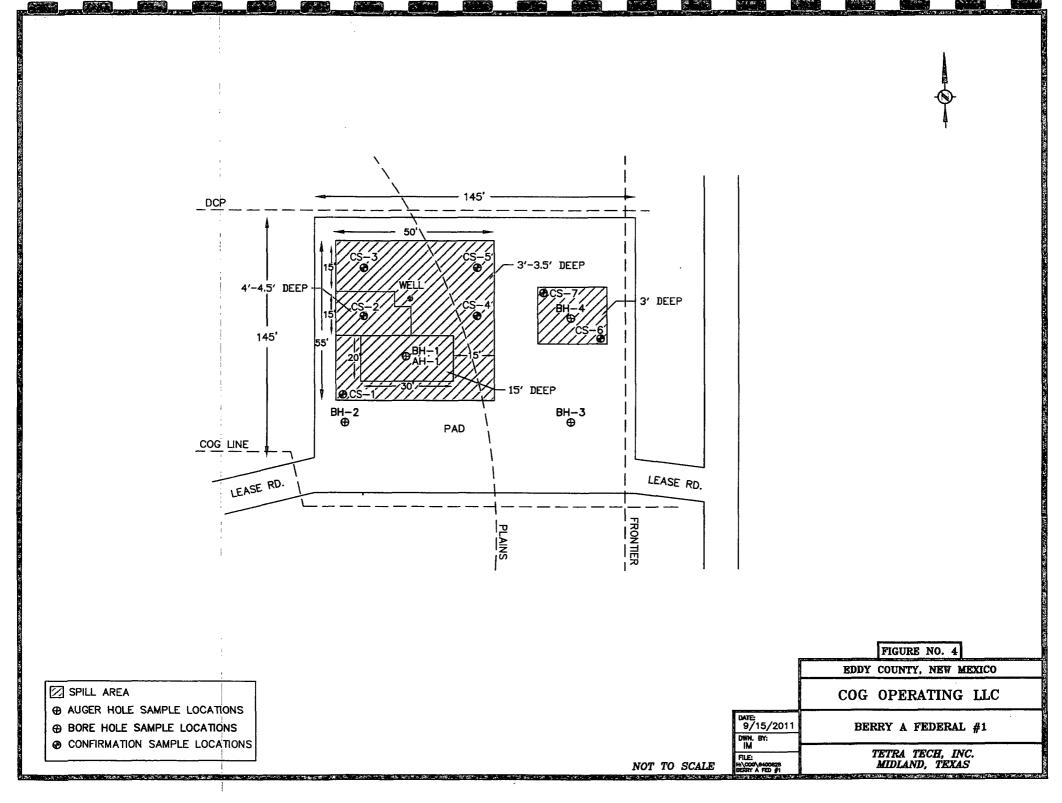
cc: Pat Ellis – COG cc: Terry Gregston – BLM

Figures

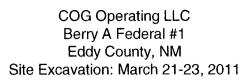


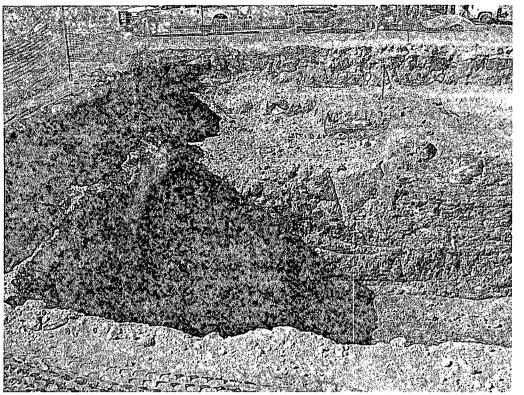






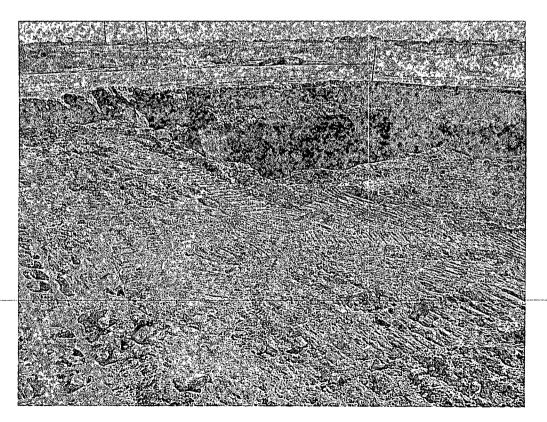
Photos





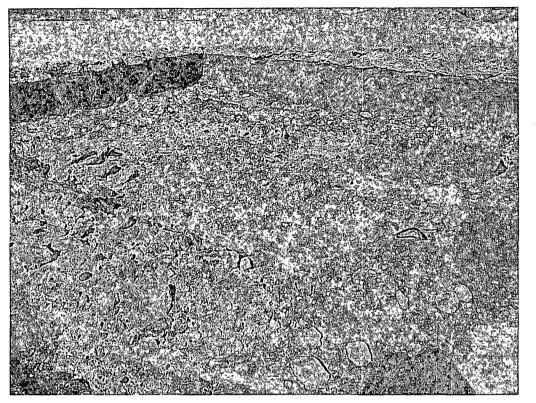
TETRA TECH

Final Depth near BH-1



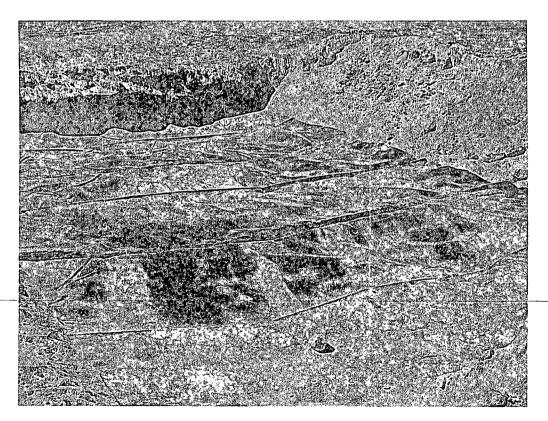
Surrounding area near BH-1

COG Operating LLC Berry A Federal #1 Eddy County, NM Site Excavation: March 21-23, 2011



TETRA TECH

Site backfilled with clean material



Liner installed over BH-1

Tables

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Table 1 COG Operating LLC. BERRY A FEDERAL #1 EDDY COUNTY, NEW MEXICO

Sample	Sample	Sample	Depth	Soil	Status	٦T	PH (mg/k	g)	Benzene	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	8/11/2010	4-4.5			X	<2.00	67.3	67.3	<0.0200	<0.0200	<0.0200	<0.0200	16,800
BH-1	10/14/2010	-0-1			X								<200
					X							7	<200
	н	5'			X			- 					33,400
		7'	م. م		77 X			•					15,000
		10'		الم المراجع ال المراجع المراجع المراجع المراجع المراجع	X								9,540
	n	-15'			X								4,100
	II	20'		Х		-	-	-	-	-	-	-	1,370
	11	25'		Х		-	-	-	-	-	-	-	1,230
	n	30'		X		-	-	-	-	-	-	-	234
	11	40'		X		-	-	-	-	-		-	513
	"	50'		X .		-	-	-	-	-	-	-	371
	11	60'		Х		-	-	-	-	-	-	-	3,030

Table 1 COG Operating LLC. BERRY A FEDERAL #1 EDDY COUNTY, NEW MEXICO

Sample	Sample	Sample	Depth	Soil	Status	Т	PH (mg/k	g)	Benzene	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)
BH-2	10/14/2010	0-1'		x		-	-	-	-	-	-	-	<200
	11	3'		Х		-	-	-	-	-	-	-	204
	13	5'		х		-	-	-	-	-	-	-	<200
	18	7'		Х		-	-	-	-	-	-	-	<200
BH-3	10/14/2010	0-1'		x		-	-	-	-	-	-	-	504
	н	3'		Х		-	-	-	-	-	-	-	387
	"	5'		х		-	-	-	-	-	-	-	316
	н	7'		Х		-	-	-	-	-	-	-	<200
	"	10'		Х		-	-	-	-	-	-	-	<200
BH-4	10/14/2010		· · · ·		X		-	lag t evel.	-		1. 1. s. e		19,800
	и	3'			X	-	-						9,280
	u	5'		Х		-	-	•	-	-	-	-	<200
	u	7'		Х		-	-	-	-	-	-	-	<200
	U	10'		Х		-	-	-	-	-	-	-	229

BEB Below Excavation Bottom

(--) Not Analyzed

Excavation depths

Liner installation depth

Table 2COG Operating LLC.BERRY A FEDERAL #1EDDY COUNTY, NEW MEXICO

	Sample	Sample	Soil	Status	т	PH (mg/k	g)	Chloride	
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	
CS-1	3/23/2011		х		<2.00	215	215	<200	
CS-2	31		х		-	-	-	203	
CS-3	II		х		-	-	-	1,150	
CS-4	II		х		-	-	-	1,140	
CS-5	u		х		-	-	-	904	
ĊS-6			х		-	-	-	<200	
CS-7	11		х		-	-	-	<200	

(--) Not Analyzed

1

i

Appendix A

District.1 1625 N. French Dr., Hobbs, NM 88240 District.1 1301 W. Grand Avenue, Artosla, NM 88210 District.1N 1000 Ris Brazos Road, Aztee, NM 87410 District.7V 1220 S. St. Francis Dr., Santa Fe, NM 87565

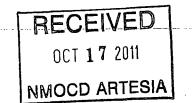
F

Oil Conservation Division

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

District IV							0 South St. Francis Dr. anta Fe, NM 87505			District Office in accordan with Rule 116 on ha side of for		
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			Kelt	ease Notific	atioi						_	
Name of Co		COG OP	RRATIN	GUIC	r	OPERA Contact		at Ellis	Initia	l Report		Final Report
Address				dland, TX 7970		Telephone ?		230-0077				
Facility Na			A Feder			Facility Typ		Veil				
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						5-18-10			1-10	10ta 07 171		
Was Immediate Notice Given?						If YES, To		Mike Bratel Terry Gregs				
By Whom?	Pat Ellis					Date and Hour 05/18/2010 4:15 p.m. If YBS, Volume Impacting the Watercourse,						
Was a Watercourse Reselved?						IFYBS, Vo	lume Impacting (ho Watercou	5 0,			
If it Waterebi	urse was Im	pacted, Descri	he Pully.*									
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Due to water	flow during	and Cleanup A , the plugging soll was rema	process ar	en.* 1 ødditional 3600 1e release site will	RBLS o I bo sam	of water was n apled by Tetra	cleased and taken a Tech Environme	to a disposa intel to deterr	i under nine sj	r a controll ppropriate	ed reco clean-u	very p actions and
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Printed Name		Patrick	**		/	pproved by I	District Supervise	r:				
Tille:		HSE M	inager			opproval Date	3	Expire	tion D	atc:		
E-mail Addre	38:	pellis@conch	orosources	2, com	<	Conditions of	Approval:	_		Attached		
Date: 07/1	6/2010	Phone	: 432	-230-0077								

* Attach Additional Sheets If Necessary



State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

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

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						OPERA	ſOR		Initia	al Report	\boxtimes	Final Repor
Name of Co	mpany C	COG Operat	ting LLC			Contact Pa	t Ellis					
Address 55	0 W. Texa	as, Suite 130	00 Midlaı	nd, Texas 7970	1 '	Felephone N	lo. (432) 685-4	332				
Facility Nan	ne Berry	A Federal #1]	Facility Typ	e Well					
Surface Ow	ner: Feder	al		Mineral C	Owner			Le	ease N	lo. 054988		
				LOCA	ATION	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West	Line	County		
С	21	175	30E	330	. 1	North	1650	West			Eddy	y
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						OF RELI		0				
Type of Relea	na: Produc	ad Fluida		INAI	URE		Release 550 bbls	Vol	luma D	acovered 5	20 661	·····
						Volume of Release 550 bbls Volume Recovered 520 bbls Date and Hour of Occurrence Date and Hour of Discovery						
Source of Release: Wellbore (casing)						5/18/10			8/10		overy	
Was Immediate Notice Given?						If YES, To Whom?						
		\boxtimes	Yes 🗌] No 🔲 Not Re	equired	1	cher – OCD					
By Whom? P	ot Filic						gston - BLM lour 5/18/10 4:15	in m				
Was a Watero		hed?					lume Impacting t		rse			
was a water			Yes 🛛	No		N/A	anne mipaeung u		150.			
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*	k	<u> </u>				R	ECE		D
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IN/A										OCT 17	2011	1
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.*				<u></u>	RIA		RTE	
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now. The lea	ik stopped i	ind the wen h	us boon su	ccessiuny plugge		andoned.						
Describe Area	a Affected a	and Cleanup A	Action Tak			·····				<u></u>		
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orginature, 1	1-1		/	Λ		Approved by	District Superviso					
Printed Name	: Ike Tavar	ez C Ag	ent	In CoG	<u>}</u>	spproved by		л. 				
Title: Project	Manager	,				Approval Dat	e:	Expir	ation I	Date:		
E-mail Addre	ss [.] Ike Tau	arez@TetraTa	ech com			Conditions of	Approval					
		mode roudi			—	Solutiona Of	ipproval.			Attached		

Date:
 10
 Phone: (432) 682-4559

 * Attach Additional Sheets If Necessary

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG - Berry A Federal #1 Eddy County, New Mexico

	16 So	outh		29 East	t		16	South		30 East		Han 284	16	South	31	l East
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14
19 110	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26
31	32	33	34	35	36	31	32	33	34	35	36	31 290	32	33	34	35
	17 Sc	outh	2	29 East	t		17	South	;	30 East	t		17 :	South	31	I East
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14
19	20	21	22 80	23	24	19	20	21	22	23	24	19	20	21	22 SITE	23
30	29 210 208'	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26
31	32	33	34	35 153	36	31	32	33	34	35	36	31	32	33	34 271	35
	18 Sc	outh	2	29 East	t		18	South	:	30 East	1		18	South	3.	l East
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	317 23
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35 261

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: August 23, 2010

Work Order: 10081640

Project Location:Eddy County, NMProject Name:COG/Berry A Fed. #1Project Number:114-6400628

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
241219	AH-1 4-4.5'	soil	2010-08-11	00:00	2010-08-13

	,]	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)
241219 - AH-1 4-4.5'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	67.3	<2.00

Sample: 241219 - AH-1 4-4.5'

Param	Flag	Result	Units	\mathbf{RL}
Chloride		16800	mg/Kg	4.00



 6701
 Abardeen Avenue, Suite 9
 1

 200
 East Sunset Road, Suite E
 1

 5002
 Basin Street, Suite A1
 1

 6615
 Harris Parkway, Suite 110
 Ft

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 Midland, Texas 79703 Ft. Worth, Texas 76132 E-Mail: lab@tracëanalysis.com

800 • 378 • 1296 888 • 588 • 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: August 20, 2010

Work Order: 10081640

Project Location:Eddy County, NMProject Name:COG/Berry A Fed. #1Project Number:114-6400628

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
241219	AH-1 4-4.5'	soil	2010-08-11	00:00	2010-08-13

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

Blain feft wich

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/Berry A Fed. #1 were received by TraceAnalysis, Inc. on 2010-08-13 and assigned to work order 10081640. Samples for work order 10081640 were received intact at a temperature of 18.0 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	62330	2010-08-18 at 09:15	72769	2010-08-18 at 11:58
Chloride (Titration)	SM 4500-Cl B $$	62312	2010-08-17 at 11:03	72698	2010-08-17 at $16:18$
TPH DRO - NEW	S 8015 D	62397	2010-08-19 at 10:46	72774	2010-08-19 at 10:46
TPH GRO	S 8015 D	62330	2010-08-18 at 09:15	72770	2010-08-18 at 12:25

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 10081640 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 received 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.

Analytical Report

Sample: 241219 - AH-1 4-4.5'

Analysis: E QC Batch: 7	Aidland 3TEX 2769 2330		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2010-08-18 2010-08-18		Prep Meth Analyzed Prepared 1	By: AG
			RL					
Parameter	\mathbf{F} lag		Result		Units	Di	ilution	RL
Benzene	<u> </u>		< 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
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	e (TFT)	1	0.863	mg/Kg	1	2.00	43	52.8 - 137
4-Bromofluorob	enzene (4-BFB)		0.845	mg/Kg	1	2.00	42	38.4 - 157

Sample: 241219 - AH-1 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72698	Date Analyzed:	2010-08-17	Analyzed By:	AR
Prep Batch:	62312	Sample Preparation:	2010-08-17	Prepared By:	AR
		RL			
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		16800	mg/Kg	100	4.00

Sample: 241219 - AH-1 4-4.5'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72774	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62397	Sample Preparation:	2010-08-19	Prepared By:	
		RL			
Parameter	Flag	Result	Units	Dilution	RL
DRO		67.3 m	ng/Kg	1	50.0

¹SPECIAL-TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. \bullet

Sample: 241219 - AH-1 4-4.5' Laboratory: Midland Analysis: TPH GRO Analysis: TPH GRO Date Analyzed: 2010-08-18 Prep Batch: 62330 Sample: Prepared By: AG RL Parameter Flag Result Units Dilution Amount GRO <2.00 surrogate Flag Result Units Dilution Amount Recovery Limit Trifluorotoluene (TFT) 1.13 mg/Kg 1 2.00 Surrogate Flag Result Units Dilution Amount Recovery Limit Trifluorotoluene (TFT) 1.13 mg/Kg 1 2.00 GRA 2.00 56 4B-store 0.983 mg/Kg 1 2.00 QC Batch: 72698 QC Preparation: 2010-08-17 Prepared By: A				C	OG/Berry	A Fed. #1		Page Number: 5 of Eddy County, N				
n-Tricosane 114 mg/Kg 1 100 114 70 - 1 Sample: 241219 - AH-1 4-4.5' Laboratory: Midland Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5 QC Batch: 72770 Date Analyzed: 2010-08-18 Analyzed By: AG Parameter Flag Result Units Dilution Method: S 5 QC Batch: 7270 Date Analyzed: 2010-08-18 Prepared By: AG Surrogate Flag Result Units Dilution Amount Recovery Limit Trifluorotoluene (TFT) 1.13 mg/Kg 1 2.00 56 48.5 - 4-Bromofluorobenzene (4-BFB) 0.983 mg/Kg 1 2.00 49 42 - 1 Method Blank (1) QC Batch: 72698 Date Analyzed: 2010-08-17 Analyzed By: A Parameter Flag Result Units MDL Prepared By: A QC Batch: 7269 Date Analyzed: 2010-08-18 P	Surrogate	Flag	Result	Units	Dilı	ution						
Laboratory:Midland Analysis:TPH GRO TPH GRO QC Batch:Analytical Method:S 8015 D 	n-Tricosane	<u> </u>	114	mg/Kg		1	100		70	- 130		
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5 0 QC Batch: 72770 Date Analyzed: 2010-08-18 Analyzed By: AG Prep Batch: 62330 Sample Preparation: 2010-08-18 Prepared By: AG Parameter Flag Result Units Dilution Precent Recovery GRO <2.00 mg/Kg 1 2 2 Spike Percent Recovery Limit Surrogate Flag Result Units Dilution Amount Recovery Limit Trifluorotoluene (TFT) 1.13 mg/Kg 1 2.00 56 48.5 - 4-Bromofluorobenzene (4-BFB) 0.983 mg/Kg 1 2.00 49 42 - 1 Method Blank (1) QC Batch: 72698 Date Analyzed: 2010-08-17 Analyzed By: A Parameter Flag Result Units Units Chloride < 2.18 mg/Kg . . MDL QC Batch: 72769 Date Analyzed: 2010-08-1	-		1 4-4.5'									
ParameterFlagResultUnitsDilutionGRO<2.00mg/Kg12SurrogateFlagResultUnitsDilutionAmountRecoveryLimitSurrogateFlagResultUnitsDilutionAmountRecoveryLimitTrifluorotoluene (TFT)1.13mg/Kg12.005648.5 -4-Bromofluorobenzene (4-BFB)0.983mg/Kg12.004942 - 1Method Blank (1)QC Batch:72698Date Analyzed:2010-08-17Analyzed By: APrep Batch:62312QC Preparation:2010-08-17Prepared By: AParameterFlagResultUnitsChlorideChloride<2.18mg/KgPrepared By: APrep Batch:62330QC Preparation:2010-08-18Analyzed By: APrep Batch:62330QC Preparation:2010-08-18Prepared By: APrep Batch:62330QC Preparation:2010-08-18Prepared By: APrep Batch:62330QC Preparation:2010-08-18Prepared By: APrep Batch:62330QC Preparation:2010-08-18Prepared By: AParameterFlagResultUnits1Benzene<0.00350mg/Kg0Toluene<0.00350mg/Kg0Chloluene<0.00350mg/Kg0Chloluene<0.00166mg/Kg0	Laboratory: Analysis: QC Batch: Prep Batch:	TPH GRO 72770		Date Anal	yzed:	2010-08-18		Analyzed	By: A			
ParameterFlagResultUnitsDilutionGRO<2.00				BL								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Parameter		Flag			Units	Γ	Dilution		R		
SurrogateFlagResultUnitsDilutionAmountRecoveryLimitTrifluorotoluene (TFT)1.13 mg/Kg 12.005648.5 -4-Bromofluorobenzene (4-BFB)0.983 mg/Kg 12.004942 - 1Method Blank (1)QC Batch: 72698QC Batch:72698Date Analyzed: 2010-08-17Analyzed By: APrep Batch:62312QC Preparation: 2010-08-17Prepared By: AParameterFlagResultUnitsChloride<2.18	GRO			<2.00		mg/Kg		1		2.0		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Surrogate		Flag	Result	Units	Dilution						
Method Blank (1) QC Batch: 72698 QC Batch: 72698 Prep Batch: 62312 QC Preparation: 2010-08-17 Parameter Flag Result Units Choride <2.18						1						
QC Batch: 72698 Date Analyzed: 2010-08-17 Analyzed By: A Prep Batch: 62312 MDL Prepared By: A MDL MDL MDL Prepared By: A Parameter Flag Result Units Prepared By: A Method Blank (1) QC Batch: 72769 Date Analyzed: 2010-08-18 Analyzed By: A Prep Batch: 62330 QC Preparation: 2010-08-18 Analyzed By: A Prep Batch: 62330 QC Preparation: 2010-08-18 Prepared By: A Parameter Flag Result Units Prepared By: A Parameter Flag Result Units I Benzene <0.0150	4-Bromofluor	obenzene (4-	BFB)	0.983	mg/Kg	1	2.00	49	42	- 15		
Parameter Flag Result Units Chloride <2.18 mg/Kg Method Blank (1) QC Batch: 72769 Date Analyzed: 2010-08-18 Analyzed By: A QC Batch: 72769 Date Analyzed: 2010-08-18 Analyzed By: A Prep Batch: 62330 QC Preparation: 2010-08-18 Prepared By: A MDL MDL Prepared By: A MDL Parameter Flag Result Units I Benzene <0.0150 mg/Kg 0 Toluene <0.00950 mg/Kg 0 Ethylbenzene <0.0106 mg/Kg 0	QC Batch:	72698	QC Batch: 72698		÷					AF AF		
Chloride <2.18 mg/Kg Method Blank (1) QC Batch: 72769 Date Analyzed: 2010-08-18 Analyzed By: A QC Batch: 72769 Date Analyzed: 2010-08-18 Analyzed By: A Prep Batch: 62330 QC Preparation: 2010-08-18 Prepared By: A MDL MDL Parameter Flag Result Units I Benzene <0.0150					MDL							
Method Blank (1)QC Batch: 72769QC Batch: 72769Date Analyzed: 2010-08-18Analyzed By: APrep Batch: 62330QC Preparation: 2010-08-18Prepared By: AMDLMDLParameterFlagResultUnitsIBenzene<0.0150	Parameter		Flag							R		
QC Batch:72769 Prep Batch:Date Analyzed:2010-08-18 2010-08-18Analyzed By: Prepared By:AMDL ParameterMDLParameterFlagResultUnitsIBenzene Toluene<0.0150	Chloride		······································		<2.18		mg/K	g		4		
Parameter Flag Result Units I Benzene <0.0150	Method Bla QC Batch: Prep Batch:	72769	QC Batch: 72769							AC AC		
Parameter Flag Result Units I Benzene <0.0150					MI	DL						
Toluene <0.00950 mg/Kg 0 Ethylbenzene <0.0106	Parameter		Flag		Res	ult				R		
Ethylbenzene <0.0106 mg/Kg0	Benzene									0.0		
0,0										0.0		
Xylene < 0.00930 mg/Kg 0						.U0	mg/ł	۸g		0.0		

Report Date: August 20, 20 114-6400628							mber: 6 of 1 County, NN	
Surrogate	Flag	Result	Units	Dilution		int	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF	B)	$\begin{array}{c} 1.78\\ 1.48\end{array}$	mg/Kg mg/Kg	1 1	2.00 2.00		89 74	66.6 - 122 55.4 - 132
			0, 0					
Method Blank (1) QC	C Batch: 72770							
QC Batch: 72770 Prep Batch: 62330		Date Ana QC Prepa		10-08-18 10-08-18			Analyze Prepare	
Parameter	Flag		MDL Result			Units		RI
GRO			<1.65		<u>n</u>	ng/Kg		2
Surrogate	Flag	Result	Units	Dilution	Spik Amou		Percent Recovery	Recovery Limits
		1.99	mg/Kg	1	2.00		100	67.6 - 150
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF		1.60	mg/Kg	1	2.00)	80	52.4 - 130
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Method Blank (1) QC QC Batch: 72774	B) C Batch: 72774	Date Ana	alyzed: 20	10-08-19	2.00)	Analy	zed By: kg
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Method Blank (1) QC			alyzed: 20 aration: 20		2.00)	Analy	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Method Blank (1) QC QC Batch: 72774) Batch: 72774	Date Ana	alyzed: 20	10-08-19) Units	Analy	zed By: kg red By: kg
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Method Blank (1) QC QC Batch: 72774 Prep Batch: 62397		Date Ana	alyzed: 20 aration: 20 MDL	10-08-19			Analy	zed By: kg red By: kg RI
Trifluorotoluene (TFT)4-Bromofluorobenzene (4-BF)Method Blank (1)QC Batch:72774Prep Batch:62397ParameterDROSurrogateFlag	Batch: 72774 Flag Result	Date Ana QC Prep Units	alyzed: 20 aration: 20 MDL Result	10-08-19 10-08-19	n Spike Amount	Units ng/Kg P	Analy: Prepar ercent ecovery	zed By: kg red By: kg RI 50 Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Method Blank (1) QC QC Batch: 72774 Prep Batch: 62397 Parameter DRO Surrogate Flag	Batch: 72774 Flag	Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result <14.5	10-08-19 10-08-19	Spike	Units ng/Kg P	Analy; Prepar ercent	zed By: kg red By: kg RI 50 Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Method Blank (1) QC QC Batch: 72774 Prep Batch: 62397 Parameter DRO Surrogate Flag n-Tricosane	Batch: 72774 Flag Result 91.6	Date Ana QC Prep Units	alyzed: 20 aration: 20 MDL Result <14.5 Dilut	10-08-19 10-08-19	n Spike Amount	Units ng/Kg P	Analy: Prepar ercent ecovery	zed By: kg red By: kg RI 50 Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF Method Blank (1) QC QC Batch: 72774 Prep Batch: 62397 Parameter DRO	Batch: 72774 Flag Result 91.6	Date Ana QC Prep Units	alyzed: 20 aration: 20 MDL Result <14.5 Dilut 1	10-08-19 10-08-19	n Spike Amount	Units ng/Kg P	Analy: Prepar ercent ecovery	zed By: kg red By: kg <u>RI</u> 50 Recovery Limits 70 - 130 ed By: AR
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF) Method Blank (1) QC QC Batch: 72774 Prep Batch: 62397 Parameter DRO Surrogate Flag n-Tricosane Flag QC Batch: 72698 Prep Batch: 62312	2 Batch: 72774 Flag Result 91.6 • (LCS-1)	Date Ana QC Prep Units mg/Kg Date Ana QC Prepa	alyzed: 20 aration: 20 MDL Result <14.5 Dilut: 1 lyzed: 201 uration: 201	10-08-19 10-08-19 ion 10-08-17 10-08-17	n Spike Amount	Units ng/Kg P	Analyz Prepar ercent ecovery 92 Analyze Prepare	zed By: kg red By: kg <u>RI</u> 50 Recovery Limits 70 - 130 ed By: AR ed By: AR ed By: AR
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BF) Method Blank (1) QC QC Batch: 72774 Prep Batch: 62397 Parameter DRO Surrogate Flag n-Tricosane Flag QC Batch: 72698	2 Batch: 72774 Flag Result 91.6 • (LCS-1)	Date Ana QC Prep Units mg/Kg Date Ana QC Prepa CS Sult U	alyzed: 20 aration: 20 MDL Result <14.5 Dilut 1 lyzed: 201 uration: 201	10-08-19 10-08-19 ion 10-08-17 10-08-17 0-08-17 Spil. Ai	n Spike Amount 100	Units ng/Kg P Ra	Analyz Prepar ercent ecovery 92 Analyze Prepare	zed By: kg red By: kg <u>RI</u> 50 Recovery Limits 70 - 130 ed By: AR ed By: AR

Report Date: August 20, 2010 114-6400628		Work Order: 10081640 COG/Berry A Fed. #1							Page Number: 7 of 12 Eddy County, NM			
Param	$\begin{array}{c} \mathrm{LCSD} \\ \mathrm{Result} \end{array}$	Uni	ts Dil	Spike Amour		latrix esult	Rec		.ec. mit	RPD	RPE Limi	
Chloride	103	mg/1		100		2.18	103		- 115	5	20	
Percent recovery is based on the s	spike result.			n the spike	and sp	oike du	plicate	e result.				
Laboratory Control Spike (L	CS-1)											
QC Batch: 72769		Date	Analyzed	2010-08	3-18				Anal	yzed By	: AG	
Prep Batch: 62330			reparatio		8-18				Prep	ared By	r: AG	
	LCS	5			${ m Spil}$			trix			Rec.	
Param	Resu		Units	Dil.	Amo			sult	Rec.		Limit	
Benzene	1.96		mg/Kg	1	2.0			0150	98 04		.9 - 108	
Toluene	1.89		mg/Kg	1	2.0 2.0)0950 0106	94 88		.9 - 10 .4 - 10	
Ethylbenzene Xylene	$1.70 \\ 5.3^{2}$		mg/Kg mg/Kg	$\frac{1}{1}$	2.0)0930	00 89		.4 - 10 .1 - 10	
									09		.1 - 10	
Percent recovery is based on the s	-	RPD	is based o	_	_		plicate					
D	LCSD	Units	5 Dil.	Spike Amount		trix sult	Rec.		ec. mit	RPD	RPI Limi	
Param Benzene	Result 1.97	$\frac{0.011}{mg/K}$		$\frac{\text{Amount}}{2.00}$		$\frac{\text{sun}}{0150}$	<u>- Rec.</u> 98		- 108	$\frac{\mathbf{R}\mathbf{F}\mathbf{D}}{0}$	<u>20</u>	
Toluene	1.97	mg/K		2.00 2.00		0150	98 96		- 107	1	20	
Ethylbenzene	1.31 1.77	mg/K		$2.00 \\ 2.00$		0106	88		- 107	1	20	
Xylene	5.38	mg/K		6.00		00930	90		- 107	1	20	
Percent recovery is based on the s	spike result.			n the spike	and sp	oike du	plicate	result.				
	LCS	5 1	LCSD			Spi	ke	LCS	LCSI)	Rec.	
Surrogate	Resu	lt I	Result	Units	Dil.	Amo		Rec.	Rec.		\mathbf{Limit}	
Trifluorotoluene (TFT)	1.76	3	1.73	mg/Kg	1	2.0	0	88	86		.2 - 114	
4-Bromofluorobenzene (4-BFB)	1.63	5	1.64	mg/Kg	1	2.0	0	82	82	69	.8 - 12	
Laboratory Control Spike (L	CS-1)											
QC Batch: 72770 Prep Batch: 62330			Analyzed: reparation							yzed By ared By		
	\mathbf{LC}	S			Sp	ike	Ma	trix			Rec.	
Param	Resi		Units	Dil.	Amo		Re	sult	Rec.		Limit	
GRO	15.	2	mg/Kg	1	20	0.0	<1	.65	76	69.	9 - 95.4	
Percent recovery is based on the s	spike result.	RPD	is based o	n the spike	and sp	oike du	plicate	result.			·	
	LCSD			Spike	Ma	trix		Re	c.		RPE	
				*								
Param	Result	Unit	s Dil.	Amount	Res	sult	Rec.	Lin	nit	RPD	Limit	

Report Date: August 20, 2010	Work Order: 10081640	Page Number: 8 of 12
114-6400628	COG/Berry A Fed. #1	Eddy County, NM

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.00	1.64	mg/Kg	1	2.00	100	82	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.78	1.59	mg/Kg	1	2.00	89	80	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch:	72774	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62397	QC Preparation:	2010-08-19	Prepared By:	kg

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	204	mg/Kg_	1	250	<14.5	82	57.4 - 133.4

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
DRO	215	mg/Kg	1	250	<14.5	86	57.4 - 133.4	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	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	116	103	mg/Kg	1	100	116	103	70 - 130

Matrix Spike (MS-1) Spiked Sample: 241239

QC Batch:	72698	Date Analyzed:	2010-08-17	Analyzed By:	\mathbf{AR}
Prep Batch:	62312	QC Preparation:	2010-08-17	Prepared By:	\mathbf{AR}

	MS			Spike	Matrix		Rec.
Param	Result	\mathbf{Units}	Dil.	Amount	\mathbf{Result}	Rec.	Limit
Chloride	10300	mg/Kg	100	10000	392	99	85 - 115

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
Chloride	 	10500	mg/Kg	100	10000	392	101	85 - 115	2	20
-	 					· · · · ·		-		

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

Matrix Spike (MS-1) Spiked Sample: 241219

QC Batch:	72769	Date Analyzed:	2010-08-18	Analyzed By:	AG
Prep Batch:	62330	QC Preparation:	2010-08-18	Prepared By:	AG

Report Date: August 20, 2010	Work Order: 10081640	Page Number: 9 of 12
114-6400628	COG/Berry A Fed. #1	Eddy County, NM

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	2.15	mg/Kg	1	2.00	< 0.0150	108	80.5 - 112
Toluene	2.13	mg/Kg	1	2.00	< 0.00950	106	82.4 - 113
Ethylbenzene	2.15	mg/Kg	1	2.00	< 0.0106	108	83.9 - 114
Xylene	6.47	mg/Kg	1	6.00	< 0.00930	108	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	\mathbf{Result}	Rec.	Limit	RPD	Limit
Benzene	2	1.52	mg/Kg	1	2.00	< 0.0150	76	80.5 - 112	34	$\overline{20}$
Toluene	3	1.50	mg/Kg	1	2.00	< 0.00950	75	82.4 - 113	35	20
Ethylbenzene	4	1.51	mg/Kg	1	2.00	< 0.0106	76	83.9 - 114	35	20
Xylene	5	4.57	mg/Kg	1	6.00	< 0.00930	76	84 - 114	34	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	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.74	1.18	mg/Kg	1	2	87	59	41.3 - 117
4-Bromofluorobenzene (4-BFB)	1.67	1.14	mg/Kg	1	2	84	57	35.5 - 129

Matrix Spike (MS-1) Spiked Sample: 241299

QC Batch:	72770	Date Analyzed:	2010-08-18	Analyzed By:	\mathbf{AG}
Prep Batch:	62330	QC Preparation:	2010-08-18	Prepared By:	\mathbf{AG}

	MS			Spike	Matrix		Rec.
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
GRO	14.6	mg/Kg	1	20.0	$<\!1.65$	73	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.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	15.7	mg/Kg	1	20.0	< 1.65	78	61.8 - 114	7	20

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

Surrogate	MS Result	${ m MSD} { m Result}$	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	${f Rec.}\ {f Limit}$	
Trifluorotoluene (TFT)	1.12	1.23	mg/Kg	1	2	56	62	50 - 162	
4-Bromofluorobenzene (4-BFB)	1-16	1.27	mg/Kg	- 1	2	58 -	-64	50 - 162 -	

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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Summary Report

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

Report Date: October 25, 2010

Work Order: 10102019

Project Location:	Eddy County, NM
Project Name:	COG/Berry A Fed. #1
Project Number:	114-6400628

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
248002	BH-1 0-1'	soil	2010-10-14	00:00	2010-10-20
248003	BH-1 3'	soil	2010-10-14	00:00	2010-10-20
248004	BH-1 5'	soil	2010-10-14	00:00	2010-10-20
248005	BH-1 7'	soil	2010 - 10 - 14	00:00	2010-10-20
248006	BH-1 10'	soil	2010-10-14	00:00	2010-10-20
248007	BH-1 15'	soil	2010-10-14	00:00	2010-10-20
248008	BH-1 20'	soil	2010-10-14	00:00	2010-10-20
248009	BH-1 25'	soil	2010-10-14	00:00	2010-10-20
248010	BH-1 30'	soil	2010-10-14	00:00	2010-10-20
248011	BH-1 40'	soil	2010-10-14	00:00	2010-10-20
248012	BH-1 50'	soil	2010-10-14	00:00	2010-10-20
248013	BH-1 60'	soil	2010-10-14	00:00	2010-10-20
248014	BH-2 0-1'	soil	2010-10-14	00:00	2010-10-20
248015	BH-2 3'	soil	2010-10-14	00:00	2010-10-20
248016	BH-2 5'	soil	2010-10-14	00:00	2010-10-20
248017	BH-2 7'	soil	2010-10-14	00:00	2010-10-20
248018	BH-3 0-1'	soil	2010-10-14	00:00	2010-10-20
248019	BH-3 3'	soil	2010-10-14	00:00	2010-10-20
248020	BH-3 5'	soil	2010 - 10 - 14	00:00	2010-10-20
248021	BH-3 7'	soil	2010-10-14	00:00	2010-10-20
248022	BH-3 10'	soil	2010-10-14	00:00	2010-10-20
248023	BH-4 0-1'	soil	2010-10-14	00:00	2010-10-20
-248024	BH-4 3'	- soil	2010-10-14	-00:00	2010-10-20
248025	BH-4 5'	soil	2010-10-14	00:00	2010-10-20
248026	BH-4 7'	soil	2010-10-14	00:00	2010-10-20
248027	BH-4 10'	soil	2010-10-14	00:00	2010-10-20

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: October 25, 2010		Work Order: 10102019		Page Number: 2 of 5		
Sample: 248002	- BH-1 0-1'					
Param	Flag	Result	Units	RL		
Chloride		<200	mg/Kg	4.00		
Sample: 248003	- BH-1 3'					
Param	Flag	Result	Units	RL		
Chloride		<200	mg/Kg	4.00		
Sample: 248004	- BH-1 5'					
Param	Flag	Result	Units	RL		
Chloride		33400	mg/Kg	4.00		
Sample: 248005	- BH-1 7'					
Param	Flag	Result	Units	\mathbf{RL}		
Chloride		15000	mg/Kg	4.00		
Sample: 248006						
Param Chloride	Flag	Result 9540	Units mg/Kg	RL 4.00		
		3010	ing/itg	4.00		
Sample: 248007	- BH-1 15'					
Param	Flag	Result	Units	RL		
Chloride	·	4100	mg/Kg	4.00		
Sample: 248008	- BH-1 20'					
Param	Flag	Result	Units	RL		
Chloride		1370	mg/Kg	4.00		
	-		·· ··· · ·	<u>. </u>		
Sample: 248009	- BH-1 25'					
Param	Flag	Result	Units	RL		
Chloride		1230	mg/Kg	4.00		

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Report Date: Octo	ber 25, 2010	Work Order: 10102019	Pa	ge Number: 3 of 5
Sample: 248010 -	- BH-1 30'			
Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00
Sample: 248011 ·	- BH-1 40'			
Param	\mathbf{Flag}	Result	Units	RL
Chloride		513	mg/Kg	4.00
Sample: 248012 -	- BH-1 50'			
Param	Flag	Result	Units	RL
Chloride	· · · · · · · · · · · · · · · · · · ·	371	mg/Kg	4.00
Sample: 248013	- BH-1 60'			
Param	Flag	Result	Units	RL
Chloride		3030	mg/Kg	4.00
Sample: 248014 -	- BH-2 0-1'			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		<200	mg/Kg	4.00
Sample: 248015	- BH-2 3'			
Param	Flag	Result	Units	RL
Chloride		204	mg/Kg	4.00
Sample: 248016 -	- BH-2 5'			
Param	Flag	Result	Units	RL
Chloride	······································	<200	mg/Kg	4.00
Sample: 248017 -	· BH-2 7'			
Param	Flag	Result	Units	RL
Chloride		<200	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: October 25, 2010		Work Order: 10102019		Page Number: 4 of 5	
Sample: 248018 - BH-	3 0-1'				
Param	Flag	Result	Units	RL	
Chloride		504	mg/Kg	4.00	
Sample: 248019 - BH-	3 3'				
Param	Flag	Result	Units	RL	
Chloride		387	mg/Kg	4.00	
Sample: 248020 - BH-	3 5'				
Param	Flag	Result	Units	RL	
Chloride		316	mg/Kg	4.00	
Sample: 248021 - BH-	3 7'				
Param	Flag	Result	Units	RL	
Chloride		<200	mg/Kg	4.00	
Sample: 248022 - BH-	3 10'				
Param	Flag	Result	Units	RL	
Chloride		<200	mg/Kg	4.00	
Sample: 248023 - BH-	4 0-1'				
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		19800	mg/Kg	4.00	
Sample: 248024 - BH-	4 3'				
Param	Flag	Result	Units	RL	
Chloride		9280	mg/Kg	4.00	
Sample: 248025 - BH	4 5'				
Param	Flag	Result	Units	RL	
Chloride	¥	<200	mg/Kg	4.00	

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Report Date: October 25, 2010		Work Order: 10102019	Page	Number: 5 of 5
Sample: 248026	- BH-4 7'			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		<200	mg/Kg	4.00
S 1 948097				
Sample: 248027	- BH-4 10 [°]			
Param	Flag	Result	Units	RL
Chloride		229	mg/Kg	4.00

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El Paso, Texas 79922 888 • 588 • 3443 Midland, Texas 79703 E-Mail: lab@traceanalysis.com

FAX 915+585+4944 432 • 689 • 6301 FAX 432+689+6313 817 • 201 • 5260

WBENC: 237019

HUB: 1752439743100-86536 NCTRCA WFWB38444Y0909

Certifications

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317

El Paso: T104704221-08-TX LELAP-02002

T104704392-08-TX Midland:

Analytical and Quality Control Report

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

Report Date: October 25, 2010

Work Order: 10102019

Project Location: Eddy County, NM COG/Berry A Fed. #1 Project Name: Project Number: 114-6400628

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
248002	BH-1 0-1'	soil	2010-10-14	00:00	2010-10-20
248003	BH-1 3'	soil	2010-10-14	00:00	2010-10-20
248004	BH-1 5'	soil	2010-10-14	00:00	2010-10-20
248005	BH-1 7'	soil	2010-10-14	00:00	2010-10-20
248006	BH-1 10'	soil	2010-10-14	00:00	2010-10-20
248007	BH-1 15'	soil	2010-10-14	00:00	2010-10-20
248008	BH-1 20'	soil	2010-10-14	00:00	2010-10-20
248009	BH-1 25'	soil	2010-10-14	00:00	2010 - 10 - 20
248010	BH-1 30'	soil	2010-10-14	00:00	2010 - 10 - 20
248011	BH-1 40'	soil	2010-10-14	00:00	2010-10-20

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
248012	BH-1 50'	soil	2010-10-14	00:00	2010-10-20
248013	BH-1 60'	soil	2010-10-14	00:00	2010-10-20
248014	BH-2 0-1'	soil	2010-10-14	00:00	2010-10-20
248015	BH-2 3'	soil	2010-10-14	00:00	2010-10-20
248016	BH-2 5'	soil	2010-10-14	00:00	2010-10-20
248017	BH-2 7'	soil	2010-10-14	00:00	2010-10-20
248018	BH-3 0-1'	soil	2010-10-14	00:00	2010-10-20
248019	BH-3 3'	soil	2010-10-14	00:00	2010-10-20
248020	BH-3 5'	soil	2010-10-14	00:00	2010-10-20
248021	BH-3 7'	soil	2010-10-14	00:00	2010-10-20
248022	BH-3 10'	soil	2010-10-14	00:00	2010-10-20
248023	BH-4 0-1'	soil	2010-10-14	00:00	2010-10-20
248024	BH-4 3'	soil	2010-10-14	00:00	2010-10-20
248025	BH-4 5'	soil	2010-10-14	00:00	2010-10-20
248026	BH-4 7'	soil	2010-10-14	00:00	2010-10-20
248027	BH-4 10'	soil	2010-10-14	00:00	2010-10-20

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 16 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

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

Case Narrative

Samples for project COG/Berry A Fed. #1 were received by TraceAnalysis, Inc. on 2010-10-20 and assigned to work order 10102019. Samples for work order 10102019 were received intact at a temperature of 4.0 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	64001	2010-10-21 at 09:44	74655	2010-10-22 at 14:33
Chloride (Titration)	SM 4500-Cl B	64001	2010-10-21 at 09:44	74656	2010-10-22 at 14:34
Chloride (Titration)	SM 4500-Cl B	64001	2010-10-21 at 09:44	74657	2010-10-22 at 14:35
Chloride (Titration)	SM 4500-Cl B	64001	2010-10-21 at 09:44	74658	2010-10-22 at 14:36

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 10102019 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: 248002 - BH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74655	Date Analyzed:	2010-10-22	Analyzed By:	AR
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	\mathbf{AR}
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

Sample: 248003 - BH-1 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 74655	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
Deveryor		RL	The idea	Dilution	DI
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 248004 - BH-1 5'

Chloride		33400	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	AR
QC Batch:	74655	Date Analyzed:	2010-10-22	Analyzed By:	
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 248005 - BH-1 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74656	Date Analyzed:	2010-10-22	Analyzed By:	AR
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	AR
·· ····		······································			and the second se

continued ...

sample 248005 continued ...

		RL			
Parameter	Flag	Result	Units	Dilution	RL
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		15000	mg/Kg	100	4.00

Sample: 248006 - BH-1 10'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 74656	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		9540	ng/Kg	100	4.00

Sample: 248007 - BH-1 15'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74656 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		4100	mg/Kg	100	4.00

Sample: 248008 - BH-1 20'

Chloride		1370 1	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	
QC Batch:	74656	Date Analyzed:	2010-10-22	Analyzed By:	,
Laboratory: Analysis:	Midland Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	NI / A

Report Date: October 25, 2010	Work Order: 10102019	Page Number: 6 of 16
114-6400628	COG/Berry A Fed. #1	Eddy County, NM

Sample: 248009 - BH-1 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500 -Cl B	Prep Method:	N/A
QC Batch:	74656	Date Analyzed:	2010-10-22	Analyzed By:	AR
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	AR
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		1230	mg/Kg	100	4.00

Sample: 248010 - BH-1 30'

Chloride		234	mg/Kg	50	4.00
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	AR
QC Batch:	74656	Date Analyzed:	2010-10-22	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 248011 - BH-1 40'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74656	Date Analyzed:	2010-10-22	Analyzed By:	AR
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	\mathbf{AR}
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		513 1	ng/Kg	50	4.00

Sample: 248012 - BH-1 50'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74656 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		371	mg/Kg	50	4.00

Report Date: October 25, 2010	Work Order: 10102019	Page Number: 7 of 16
114-6400628	COG/Berry A Fed. #1	Eddy County, NM
· · · · · · · · · · · · · · · · · · ·		

Sample: 248013 - BH-1 60'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74656	Date Analyzed:	2010-10-22	Analyzed By:	AR
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	\mathbf{AR}
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		3030	mg/Kg	100	4.00

Sample: 248014 - BH-2 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74656 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

Sample: 248015 - BH-2 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74657 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		204	mg/Kg	50	4.00

Sample: 248016 - BH-2 5'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 74657	Analytical Method Date Analyzed: Sample Preparatio	2010-10-22	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

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11-0400020	red. #1 Eddy	County, 1

Sample: 248017 - BH-2 7'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74657 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 248018 - BH-3 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74657 64001	Analytical Method: Date Analyzed: Sample Preparation	2010-10-22	Prep Method: Analyzed By: Prepared By:	ÁR
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		504	mg/Kg	50	4.00

Sample: 248019 - BH-3 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74637 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	RL
Chloride		387	mg/Kg	50	4.00

Sample: 248020 - BH-3 5'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74657 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
Devenetor	131	RL			DI
Parameter	Flag	Result	Units	Dilution	RL
Chloride		316	mg/Kg	50	4.00

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114-6400628	COG/Berry A Fed. #1	Eddy County, NM

Sample: 248021 - BH-3 7'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74657 64001	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	\overline{AR}
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride	<u></u>	<200	mg/Kg	50	4.00

Sample: 248022 - BH-3 10'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74657 64001	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 248023 - BH-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74657	Date Analyzed:	2010-10-22	Analyzed By:	\mathbf{AR}
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	\mathbf{AR}
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride	· · · · · · · · · · · · · · · · · · ·	19800 I	ng/Kg	100	4.00

Sample: 248024 - BH-4 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 74657	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		9280	mg/Kg	100	4.00

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Sample: 248025 - BH-4 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74658	Date Analyzed:	2010-10-22	Analyzed By:	\mathbf{AR}
Prep Batch:	64001	Sample Preparation:	2010-10-21	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

Sample: 248026 - BH-4 7'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74658 64001	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2010-10-22 2010-10-21	Prep Method: Analyzed By: Prepared By:	AR
_	_	RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 248027 - BH-4 10'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 74658 64001	Analytical Me Date Analyzed Sample Prepa	d: 2010-10-22	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		229	mg/Kg	50	4.00
Method Bla	ank (1) QC Batch: 74655				
QC Batch:	74655	Date Analyzed:	2010-10-22	Analyzed By:	\mathbf{AR}
Prep Batch:	64001	QC Preparation:	2010-10-21	Prepared By:	AR

			-	-
		MDL		
Parameter	\mathbf{Flag}	Result	Units	RL
Chloride		<2.18	mg/Kg	4

Chloride <2.18 Method Blank (1) QC Batch: 74658 QC Batch: 74658 Date Analyzed: 2010-10-22	Units mg/Kg Units mg/Kg	Analyzed Prepared	By: AR RL 4 By: AR
Prep Batch: 64001 QC Preparation: 2010-10-21 MDL Chloride MDL Result MDL Result Method Blank (1) QC Batch: 74657 QC Batch: 74657 Date Analyzed: 2010-10-22 Prep Batch: 64001 QC Preparation: 2010-10-22 Parameter Flag Result Chloride <2.18 Method Blank (1) QC Batch: 74658 QC Batch: 74658 Date Analyzed: 2010-10-22 Prep Batch: 64001 <2.18 MDL Method Blank (1) QC Batch: 74658 Date Analyzed: 2010-10-22 Prep Batch: 64001 QC Preparation: 2010-10-21 MDL Parameter Flag MDL Parameter Flag Result Chloride Chloride <2.18 MDL 2.18 Laboratory Control Spike (LCS-1) MDL 2.18	mg/Kg Units	Prepared 3 Analyzed Prepared	By: AR RL 4 By: AR By: AR RL
ParameterFlagResultChloride<2.18Method Blank (1)QC Batch: 74657QC Batch:74657Prep Batch:64001ParameterFlagMDLParameterFlagResultChloride<2.18Method Blank (1)QC Batch: 74658QC Batch:74658Prep Batch:64001QC Batch:74658Date Analyzed:2010-10-22Prep Batch:64001QC Preparation:2010-10-21ParameterFlagMDLParameterFlagResultChloride<2.18	mg/Kg Units	Analyzed Prepared	4 By: AR By: AR RL
Chloride <2.18	mg/Kg Units	Analyzed Prepared	4 By: AR By: AR RL
QC Batch:74657 Prep Batch:Date Analyzed:2010-10-22 QC Preparation:2010-10-21ParameterFlagMDL ResultChloride<2.18		Prepared	By: AR RL
Prep Batch:64001QC Preparation:2010-10-21MDL ParameterFlagResultChloride<2.18		Prepared	By: AR RL
ParameterFlagResultChloride<2.18		5	
Chloride <2.18		5	
Method Blank (1)QC Batch: 74658QC Batch:74658Date Analyzed: 2010-10-22Prep Batch:64001QC Preparation: 2010-10-21ParameterFlagMDLChloride<2.18	<u> </u>	>	
Parameter Flag Result Chloride <2.18 Laboratory Control Spike (LCS-1)		Analyzed Prepared	
Chloride <2.18 Laboratory Control Spike (LCS-1)	Units		RL
Laboratory Control Spike (LCS-1)	mg/Kg	<u>{</u>	4
Prep Batch:64001Date Intraview2010-10-22QC Preparation:2010-10-21		Analyzed Prepared 2	
LCS Borom Borult Unita Dil	Spike Matri		Rec.
ParamResultUnitsDil.Chloride97.7mg/Kg1	$\frac{\text{Amount}}{100} \qquad \frac{\text{Resul}}{<2.18}$		Limit 85 - 115
Percent recovery is based on the spike result. RPD is based on the spike and	······		00 - 110
	spike duplicate resu	Rec.	RPD
ParamResultUnitsDil.AmountChloride102mg/Kg1100	spike duplicate resu Matrix Result Rec.		D Limit

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

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	Date Analyzed: QC Preparation:	Analyzed By: Prepared By:	

			LCS			Spike	Matrix		Rec.
Param			Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	 		 96.7	mg/Kg	1	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	1	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.

Laboratory Control Spike (LCS-1)

QC Batch:	74657	Date Analyzed:	2010-10-22	Analyzed By:	\mathbf{AR}
Prep Batch:	64001	QC Preparation:	2010-10-21	Prepared By:	\mathbf{AR}

	\mathbf{LCS}			Spike	Matrix		Rec.
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	97.4	mg/Kg	1	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	1	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.

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	QC Batch:74658Date Analyzed:Prep Batch:64001QC Preparation:		U U	2010-10-22 2010-10-21			Analyzed By: AR Prepared By: AR		
Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	
Chloride		98.4	mg/Kg	1	100	<2.18	98	85 - 115	

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

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	LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	102	mg/Kg	g 1	100	<2.18	102	85 - 115	4	20
Percent recovery is based on the s	pike result.	RPD is	based on t	the spike an	d spike du	plicate r	esult.		
Matrix Spike (MS-1) Spiked	l Sample: 2	48004							
QC Batch: 74655		Date Ar	nalvzed:	2010-10-2	2		An	alyzed B	v: AR
Prep Batch: 64001			paration:	2010-10-22				epared B	
		4 • •	P	-010 10 2	-			sponso 2)
	М	C			Q., :1	Ма	+!		Rec.
Param	Res		Units	Dil.	Spike Amount		trix sult R	.ec.	Limit
Chloride	437		mg/Kg	100	10000			03	85 - 115
Percent recovery is based on the s									00 110
	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	44000	mg/Kg		10000	33400	106	85 - 115	1	20
Percent recovery is based on the s									
referent felovery is based on the s	pine result.	1(1 1) 15	Dascu on i	ine spike au	a spike au	JIICAUC I	cours.		
Matrix Spike (MS-1) Spiked	l Sample: 2	48014							
QC Batch: 74656		Date Ar	nalvzed.	2010-10-22)		An	alyzed B	v: AR
Prep Batch: 64001			paration:	2010-10-22				epared B	
op or of of		~ ~~~~	P		-			sparea 2	,
	М	S			Spike	Ma	trix		Rec.
Param	Res		Units	Dil.	Amount			.ec.	Limit
Chloride	102		mg/Kg	100	10000			01	85 - 115
Percent recovery is based on the s	pike result.			he spike an	d spike du	olicate r	esult.		<u></u>
	MSD			Spike	Matrix		Rec.		RPD
	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Param							the set of		
Param Chloride	10400	mg/Kg	100	10000	<218	103	85 - 115	2	20
	10400	mg/Kg RPD is						2	20

Matrix Spike (MS-1) Spiked Sample: 248024

QC Batch: Prep Batch:	Date Analyzed: QC Preparation:	Analyzed By: Prepared By:	

continued ...

Report Date: 114-6400628	October 25, 2	2010			der: 101020 rry A Fed. ;			Pag	ge Number Eddy Co	:: 14 of 1 ounty, NN
matrix spikes	continued									-
Param		M Res		Units	Dil.	Spike Amount		trix sult	Rec.	Rec. Limit
		100			<i>D</i> 11.		100		1000.	Diffit
		М				Spike		atrix		Rec.
Param		Res		Units	Dil.	Amount		sult	Rec.	Limit
Chloride		188		mg/Kg	100	10000		280	95	85 - 115
Percent recove	ry is based or	the spike result.	RPD is	based on	the spike a	nd spike dup	olicate r	esult.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	
Chloride		19400	mg/Kg	; 100	10000	9280	101	85 - 11	5 3	20
Percent recove	ry is based or	the spike result.	RPD is	based on	the spike a	nd spike du	olicate 1	esult.		
•	74658 64001		Date Ar QC Pre	nalyzed: paration:	2010-10-2 2010-10-2				Analyzed Prepared 1	-
Prep Batch: (M	QC Pre	paration:	2010-10-2	1 Spike		H	Prepared	By: AR Rec.
Prep Batch: (Param		Res	QC Pre S sult	paration: Units	2010-10-2 Dil.	1 Spike Amount	Re	ł	Prepared Rec.	By: AR Rec. Limit
Prep Batch: (Param Chloride	64001		QC Pre	paration: Units mg/Kg	2010-10-2 Dil. 100	1 Spike Amount 10000	Re 2	H trix sult 29	Prepared	By: AR Rec.
Prep Batch: (Param Chloride	64001	Res 101 the spike result.	QC Pre	paration: Units mg/Kg	2010-10-2 Dil. 100 the spike ar	1 Spike Amount 10000 nd spike dup	Re 2	H ttrix sult 29 result.	Prepared Rec.	By: AR Rec. Limit 85 - 113
Prep Batch: (Param Chloride Percent recove	64001	Res 101	QC Pre	paration: Units mg/Kg	2010-10-2 Dil. 100 the spike ar Spike	1 Spike Amount 10000	Re 2 olicate r	H trix sult 29	Rec.	By: AR Rec. Limit 85 - 112 RPD
Prep Batch: (Param Chloride Percent recove Param	64001	Res 101 the spike result. MSD	QC Pre S ult 00 RPD is	paration: Units mg/Kg based on Dil.	2010-10-2 Dil. 100 the spike ar	1 Spike Amount 10000 nd spike dup Matrix	Re 2	H ttrix sult 29 result. Rec.	Rec. 99 RPD	By: AR Rec. Limit 85 - 113 RPD
Prep Batch: Param Chloride Percent recove Param Chloride	64001 ry is based on	Res 101 the spike result. MSD Result 10400	QC Pre S ult 00 RPD is Units mg/Kg	Units mg/Kg based on Dil. ; 100	2010-10-2 Dil. 100 the spike ar Spike Amount 10000	1 Spike Amount 10000 nd spike dup Matrix Result 229	Re 2 plicate r Rec. 102	H ttrix sult 29 esult. Rec. Limit 85 - 11	Rec. 99 RPD	By: AR Rec. Limit 85 - 113 RPD Limit
Prep Batch: Param Chloride Percent recove Param Chloride	64001 ry is based on	Res 101 the spike result. MSD Result	QC Pre S ult 00 RPD is Units mg/Kg	Units mg/Kg based on Dil. ; 100	2010-10-2 Dil. 100 the spike ar Spike Amount 10000	1 Spike Amount 10000 nd spike dup Matrix Result 229	Re 2 plicate r Rec. 102	H ttrix sult 29 esult. Rec. Limit 85 - 11	Rec. 99 RPD	By: AR Rec. Limit 85 - 113 RPD Limit
Prep Batch: (Param Chloride Percent recove: Param Chloride Percent recove:	64001 ry is based on ry is based on	Res 101 the spike result. MSD Result 10400	QC Pre S ult 00 RPD is Units mg/Kg	Units mg/Kg based on Dil. ; 100	2010-10-2 Dil. 100 the spike ar Spike Amount 10000	1 Spike Amount 10000 nd spike dup Matrix Result 229	Re 2 plicate r Rec. 102	H ttrix sult 29 esult. Rec. Limit 85 - 11	Rec. 99 RPD	By: AR Rec. Limit 85 - 113 RPD Limit
Prep Batch: (Param Chloride Percent recove Param Chloride Percent recove Standard (IC	64001 ry is based on ry is based on CV-1)	Res 101 the spike result. MSD Result 10400	QC Pre S ult 00 RPD is Units mg/Kg RPD is	Units mg/Kg based on Dil. 5 100 based on	2010-10-2 Dil. 100 the spike ar Spike Amount 10000	Spike Amount 10000 nd spike dup Matrix Result 229 nd spike dup	Re 2 plicate r Rec. 102	H ttrix sult 29 result. Rec. Limit 85 - 11 result.	Rec. 99 RPD	By: AR Rec. Limit 85 - 113 RPD Limit 20
Prep Batch: (Param Chloride Percent recove Param Chloride Percent recove Standard (IC	64001 ry is based on ry is based on CV-1)	Res 101 the spike result. MSD Result 10400	QC Pre S ult 00 RPD is Units mg/Kg RPD is	Units mg/Kg based on Dil. 5 100 based on halyzed:	2010-10-2 Dil. 100 the spike ar Spike Amount 10000 the spike ar	Spike Amount 10000 nd spike dup Matrix Result 229 nd spike dup	Re 2 plicate r Rec. 102	H ttrix sult 29 result. Rec. Limit 85 - 11 result.	Rec. 99 RPD 5 3	By: AR Rec. Limit 85 - 113 RPD Limit 20
Prep Batch: 0 Param Chloride Percent recove Param Chloride Percent recove Standard (IC QC Batch: 74	64001 ry is based on ry is based on CV-1) 1655	Res 101 the spike result. MSD Result 10400 the spike result.	QC Pre S ult 00 RPD is Units mg/Kg RPD is Date Ar ICVs True	units mg/Kg based on Dil. 100 based on alyzed: IC Fou	2010-10-2 Dil. 100 the spike an Spike Amount 10000 the spike an 2010-10-22 EVs und	Spike Amount 10000 nd spike dup Matrix Result 229 nd spike dup ICVs Percent	Rec. 102 blicate r	H ttrix sult 29 result. Rec. Limit 85 - 11 result.	Rec. 99 RPD 5 3	By: AR Rec. Limit 85 - 113 RPD Limit 20 By: AR
Prep Batch: 0 Param Chloride Percent recove Param Chloride	64001 ry is based on ry is based on CV-1)	Res 101 the spike result. MSD Result 10400	QC Pre S ult 00 RPD is Units mg/Kg RPD is Date An ICVs	units mg/Kg based on Dil. 100 based on alyzed: IC For Co	2010-10-2 Dil. 100 the spike an Spike Amount 10000 the spike an 2010-10-22	Spike Amount 10000 nd spike dup Matrix Result 229 nd spike dup	Rec. 102 blicate r	H ttrix sult 29 result. Rec. Limit 85 - 11 result.	Rec. 99 RPD 5 3	By: AR Rec. Limit 85 - 112 RPD Limit 20 By: AR

QC Batch: 74655

Date Analyzed: 2010-10-22

Analyzed By: AR

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			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-10-22
Standard (I	CV-1)						
QC Batch: 7	74656		Date Anal	yzed: 2010-10	-22	Anal	yzed By: AR
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-10-22
Standard (C	CCV-1)						
QC Batch: 7	74656		Date Anal	yzed: 2010-10	-22	Anal	yzed By: AR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2010-10-22
Standard (I	CV-1)						
QC Batch: 7	4657		Date Anal	yzed: 2010-10	-22	Anal	yzed By: AR
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2010-10-22
Standard (C	CCV-1)						
QC Batch: 7	4657		Date Anal	yzed: 2010-10	-22	Anal	yzed By: AR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-10-22
Standard (I	CV-1)						

Report Dat 114-640062	te: October 25 8	, 2010	Ŷ.			umber: 16 of 16 Idy County, NM	
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-10-22
Standard QC Batch:	(CCV-1) 74658		Date Anal	vzed: 2010-10	►92	Anal	lyzed By: AR
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2010-10-22

WO #: 10102019	7												
Analysis Request of Cha	in of Custody B	ecord					PA	GE:			OF:	3	
					(0			S REQI		No.}			
TETRA 1910 N. Big S Midland, Text (432) 682-4559 •	Spring St.		S (Ext. to C35)	Cd Cr Ph Hg Se Cd Vr Pd Hg Se							pH. TDS		
CLIENT NAME: SITE MANAGER	Tararet Sta	PRESERVATIVE METHOD	1006	8 8	8		270/625				ns, pH,		
PROJECT NO.: PROJECT NAME: 114-6400628 COG Berry A Fr	121	۶.	B 5 MOD.	te Ag A		Volatile	ni. Vol. 8	7608 08	ŝ	(AII)	stos) ns/Catio		
LAB I.D. NUMBER DATE TIME TIME AWOOD SAMPLI		FILTERED (Y/N) HINO3 IICE NONE	BTEX 8021B TPH 8015	PAH 8270 RCRA Metals Ag As TCLD Month Ac Ac	TCLP Volat	RCI Sem	GC.MS Semi, Vol. 8270/825	PCB's 8080/608 Pest. 808/608	Chloride Gamma Spec.	Alpha Beta	PLM (Asbes Major Anion		
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008 BH-1 20'	1					╶╂╶┟			Ă_	╀╂	┦┨		
009 BH-1 25		<u> </u>		-++	+	╢	+-		XI-		╉	-+-	
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Analysis Request of Chain of Custody Record				d	L							PAC	3E:	2		0	F:	3		
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TETRA 1910 N. Big Midland, Tex (432) 682-4559	Spring St.						05 (Ext. to C35)	Cr Pb Ha	Cd Vr Pd Hg Se									TDS		
CLIENT NAME: SITE MANAGE	R: Tauarez	EHS EHS		ESEF MET	VATIV	E	TX1005	8	8			60/624	70/62					E		
PROJECT NO .: PROJECT NAME: 14-6400628 COG Berry A	Federal #1	- CONTAIN Y/N)	T	Τ	Π		5 MOD.	ds Ao As	als Ag As	lles	Volatiles	8240/82	ni. Vol. 82	N608		ÂN (AN	stos)	ns/Catior		
LAB I.D. NUMBER DATE TIME XELLY SAMP	G,, NM LE IDENTIFICATION	NUMBER OF CONTAINERS FILTERED (Y/N)	HCL	S E	NONE	RTFY R0218	TPH 8015 MOD.	PAH 8270 RCRA Mete	TCLP Mete	TCLP Volatiles	TCLP Semi Volatiles RCI	GC.MS Vol.	GC.MS Semi. Vol. 8270/625	PCB's 8086 Pest. 808/6	Chloride >	Gamme Spec. Aloha Beta (Air)	PLM (Asbestos)	Major Anions/Cations,		
248012 19/14 SX BH-1 50				X											R					
013 BH-1 60'	1	١		Ī	1										M					
014 BH-2 0-1	·	1		Y		T	Π			Π					М	T				
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018 BH3 0-1	t I	1	Τ	X		T	Π	Τ	Π		T	Π			X	Τ				
019 BH-3 3'		1	T	TX		Τ		T	Π			Π			M	Τ	Π	T	Π	
620 BH-3 5'		1		X			Π	Τ	Π			Π			X	Τ				
521 BH-3 7'			Τ	X			Π	Τ	Π						X	Τ		Π		
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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.

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Analysis Reque	est of Chain of Custody	Record					PAGE		3	. (DF:	3	
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	Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946		15 (Ext. to C35)	d Cr Pb Hg Se d Vr Pd Hg Se							TDS		
CLIENT NAME:	SITE MANAGER: FRE Tavarae	PRESERVATIVE METHOD	TX1005	8 8 8 8		30/824	8270/625				s, pH.		
PROJECT NO .: PROJECT N 14-6400628	MME: Berry A Federal #1 Eddy Co., NM	CONTAIL	3021B 8015 MOD. 270	s Ag As s Ag As	88 /otatiles	3240/82		8	6		s/Cattor		
LAB I.D. NUMBER DATE TIME TIME HINOO	Eddy Co., NM SAMPLE IDENTIFICATION	HILTERED (7/10) FILTERED (7/10) HINO3 HINO3 NONE	BTEX 80218 TPH 8015 PAH 8270	RCRA Metals Ag As TCLP Metals Ag As	TCLP Volatil	RCI GC.MS Vol.	GC.MS Seml. Vol. 8270/625 PCB's 8080/608	Pest. 808/608	Gamma Spec.	Alpha Beta (Alr) PLM (Asbestos)	Major Anions/Cations, pH, TDS		
248022 10/14 SX	BH-3 10'	I X						Ŋ	\square	4*	\prod		
023	BH-4 0-1'	N X						$ \rangle$					
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Summary Report

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

Project Location:Eddy Co., NMProject Name:COG/Berry A Fed. #1Project Number:114-6400628

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
261798	CS-1	soil	2011-03-23	00:00	2011-03-25
261799	CS-2	soil	2011-03-23	00:00	2011-03-25
261800	CS-3	soil	2011-03-23	00:00	2011-03-25
261801	CS-4	soil	2011-03-23	00:00	2011-03-25
261802	CS-5	soil	2011-03-23	00:00	2011-03-25
261803	CS-6	soil	2011-03-23	00:00	2011-03-25
261804	CS-7	soil	2011-03-23	00:00	2011-03-25

	TPH DRO - NEW	TPH GRO
	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
261798 - CS-1	215	<2.00

Sample: 261798 - CS-1

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

Sample: 261799 - CS-2

Param	Flag	Result	Units	RL
Chloride		203	mg/Kg	4.00

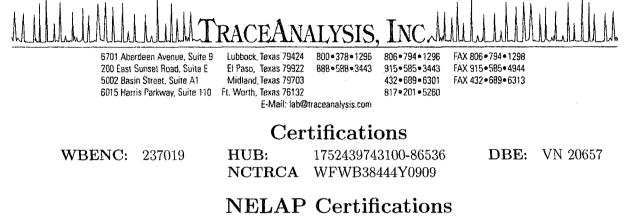
Sample: 261800 - CS-3

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: March 28, 2011

Work Order: 11032527

Report Date: March	h 28, 2011	Work Order: 11032527	Page	Number: 2 of 2
Param	Flag	Result	Units	RL
Chloride		1150	mg/Kg	4.00
Sample: 261801 -	· CS-4			
Param	Flag	Result	Units	RL
Chloride		1140	mg/Kg	4.00
Sample: 261802 -	· CS-5			
Param	Flag	Result	Units	RL
Chloride		904	mg/Kg	4.00
Sample: 261803 -	· CS-6			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 261804 -	CS-7			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		<200	mg/Kg	4.00



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

Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705 Report Date: March 28, 2011

Work Order: 11032527

Project Location:Eddy Co., NMProject Name:COG/Berry A Fed. #1Project Number:114-6400628

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
261798	CS-1	soil	2011-03-23	00:00	2011-03-25
261799	CS-2	soil	2011-03-23	00:00	2011 - 03 - 25
261800	CS-3	soil	2011-03-23	00:00	2011 - 03 - 25
261801	CS-4	soil	2011-03-23	00:00	2011 - 03 - 25
261802	CS-5	soil	2011-03-23	00:00	2011-03-25
261803	CS-6	soil	2011-03-23	00:00	2011-03-25
261804	CS-7	soil	2011-03-23	00:00	2011-03-25

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 11 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

 $\begin{array}{l} {\bf Standard\ Flags}\\ {\bf B}\ -\ {\rm The\ sample\ contains\ less\ than\ ten\ times\ the\ concentration\ found\ in\ the\ method\ blank.} \end{array}$

Case Narrative

Samples for project COG/Berry A Fed. #1 were received by TraceAnalysis, Inc. on 2011-03-25 and assigned to work order 11032527. Samples for work order 11032527 were received intact at a temperature of 3.2 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	67704	2011-03-25 at 15:31	79796	2011-03-28 at 10:03
TPH DRO - NEW	S 8015 D	67703	2011-03-25 at 14:35	79794	2011-03-25 at 14:35
TPH GRO	S 8015 D	67697	2011-03-25 at 16:03	79788	2011-03-26 at 02:07

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 11032527 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: 114-6400628	: March 28, 1	2011		/ork Order: 1 OG/Berry A		Page Number: 4 of 1 Eddy Co., N						
			Analy	tical R	leport	-						
Sample: 26	1798 - CS-1	L										
Laboratory:	Midland											
Analysis:			•	tical Method	00-Cl B	Prep M	,					
QC Batch:	79796			Analyzed:	2011-0		Analyz					
Prep Batch:	67704		Sample Preparation: 2011-03-25		3-25	Prepare	ed By: AR					
Parameter		Flag	Result		Units		Dilution	RL				
Chloride		· · · · · · · · · · · · · · · · · · ·	<200		mg/Kg		50	4.00				
Sample: 26	1798 - CS-1	L										
Laboratory:	Midland					_						
Analysis:	TPH DRO	- NEW		ytical Metho			Prep M	,				
QC Batch:	79794			Analyzed:	2011-		Analyz					
Prep Batch:	67703		Samp	ole Preparati	on: 2011-0	03-25	Prepare	ed By: kg				
Parameter		Flag	RL Result		Units		Dilution	RL				
DRO		1 mg	215		mg/Kg		Dilution 1					
								50.0				
a			TT 1	D 11		Spike	Percent	Recovery				
Surrogate	Flag	Result	Units	Dilut	ion	Amount	Recovery	Limits				
n-Tricosane		134	mg/Kg	1		100	134	70 - 130				
Sample: 26 Laboratory: Analysis: QC Batch: Prep Batch:	1 798 - CS-1 Midland TPH GRO 79788 67697	L	Analytical Date Anal Sample Pr	yzed:	S 8015 D 2011-03-26 2011-03-25		Prep Met Analyzed Prepared	By: ME				
			RL									
Parameter		Flag	Result		Units		Dilution	RL				
GRO			<2.00		mg/Kg		1	2.00				
~			D	TT 1	wast i	Spike	Percent	Recovery				
Surrogate		Flag	Result	Units	Dilution		Recovery	Limits				
Trifluorotolue			2.59 2.03	mg/Kg mg/Kg	1	2.00 2.00	$\begin{array}{cccc} 130 & 48.5 - \\ 102 & 42 - 1 \end{array}$					
4-Bromofluoro					1							

¹High surrogate recovery due to peak interference.

	: March 28, 2011	Work Order: 110 COG/Berry A Fe	Page Number: 5 of 11 Eddy Co., NM					
Sample: 26	1799 - CS-2							
Laboratory:	Midland							
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A			
QC Batch:	79796	Date Analyzed:	2011-03-28	Analyzed By:	AR			
Prep Batch:	67704	Sample Preparation:	2011-03-25	Prepared By:	AR.			
	RL							
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}			
Chloride			mg/Kg	50	4.00			
Sample: 26	1800 - CS-3							
Laboratory:	Midland							
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A			
QC Batch:	79796	Date Analyzed:	2011-03-28	Analyzed By:	ÁR.			
Prep Batch:	67704	Sample Preparation:	2011-03-25	Prepared By:	AR			
L top Dation				- 10p - 100 - () -				
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}			
Chloride			mg/Kg	100	4.00			
0	1801 - CS-4							
_	Midland							
Laboratory:	Midland Chlorida (Tituation)	Analytical Mathed	GM 4500 CI D	Drop Mathody	NI / Å			
Laboratory: Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A			
Laboratory: Analysis: QC Batch:	Chloride (Titration) 79796	Date Analyzed:	2011-03-28	Analyzed By:	AR			
Laboratory: Analysis: QC Batch:	Chloride (Titration)				•			
Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 79796 67704	Date Analyzed: Sample Preparation: RL	2011-03-28 2011-03-25	Analyzed By: Prepared By:	AR AR			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Chloride (Titration) 79796	Date Analyzed: Sample Preparation: RL Result	2011-03-28 2011-03-25 Units	Analyzed By: Prepared By: Dilution	AR AR RL			
Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 79796 67704	Date Analyzed: Sample Preparation: RL Result	2011-03-28 2011-03-25	Analyzed By: Prepared By:	AR AR			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride	Chloride (Titration) 79796 67704	Date Analyzed: Sample Preparation: RL Result	2011-03-28 2011-03-25 Units	Analyzed By: Prepared By: Dilution	AR AR RL			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 26	Chloride (Titration) 79796 67704 Flag 1802 - CS-5 Midland	Date Analyzed: Sample Preparation: RL Result 1140	2011-03-28 2011-03-25 Units mg/Kg	Analyzed By: Prepared By: Dilution 50	AR AR RL 4.00			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 26 Laboratory: Analysis:	Chloride (Titration) 79796 67704 Flag 1802 - CS-5	Date Analyzed: Sample Preparation: RL Result 1140 Analytical Method:	2011-03-28 2011-03-25 Units mg/Kg SM 4500-Cl B	Analyzed By: Prepared By: Dilution 50 Prep Method:	AR AR RL			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 26 Laboratory: Analysis:	Chloride (Titration) 79796 67704 Flag 1802 - CS-5 Midland	Date Analyzed: Sample Preparation: RL Result 1140	2011-03-28 2011-03-25 Units mg/Kg	Analyzed By: Prepared By: Dilution 50	AR AR RL 4.00			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 26 Laboratory: Analysis: QC Batch:	Chloride (Titration) 79796 67704 Flag 1802 - CS-5 Midland Chloride (Titration)	Date Analyzed: Sample Preparation: RL Result 1140 Analytical Method:	2011-03-28 2011-03-25 Units mg/Kg SM 4500-Cl B	Analyzed By: Prepared By: Dilution 50 Prep Method:	AR AR RL 4.00			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride	Chloride (Titration) 79796 67704 Flag 1802 - CS-5 Midland Chloride (Titration) 79796	Date Analyzed: Sample Preparation: RL Result 1140 Analytical Method: Date Analyzed:	2011-03-28 2011-03-25 Units mg/Kg SM 4500-Cl B 2011-03-28	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By:	AR AR RL 4.00 N/A AR			
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 26 Laboratory: Analysis: QC Batch:	Chloride (Titration) 79796 67704 Flag 1802 - CS-5 Midland Chloride (Titration) 79796	Date Analyzed: Sample Preparation: RL Result 1140 Analytical Method: Date Analyzed: Sample Preparation:	2011-03-28 2011-03-25 Units mg/Kg SM 4500-Cl B 2011-03-28	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By:	AR AR RL 4.00			

Report Date 114-6400628	: March 28, 2011		rk Order: 1 G/Berry A			Page Nu E	mber: (ddy Co			
Sample: 26	1803 - CS-6									
Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 79796 67704	Date Ar	cal Method aalyzed: Preparatio:	2011-03-28	3	Prep Me Analyze Prepare	d By:	N/A AR AR		
Parameter Chloride	Flag	RL Result <200		Units mg/Kg	D	ilution 50		RL 4.00		
	1004 00 5			0, 0						
Sample: 26 Laboratory: Analysis: QC Batch: Prep Batch:	1804 - CS-7 Midland Chloride (Titration) 79796 67704	Date Ar	cal Method nalyzed: Preparation	2011-03-28	3	Prep Me Analyze Prepare	d By:	N/A AR AR		
Parameter Chloride	Flag	RL Result <200		Units mg/Kg	D	ilution 50		RL 4.00		
Method Bla	ank (1) QC Batch: 79788									
QC Batch: Prep Batch:	79788 67697	Date Analy QC Prepara		1-03-26 1-03-25		Analyze Prepare		ME ME		
Parameter GRO	Flag		MDL Result <0.753		Units mg/K			RL 2		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery		overy: mits		
Trifluorotoluo 4-Bromofluor		1.88 1.48	mg/Kg mg/Kg	1 1	2.00 2.00	94 74		5 - 150 - 130		
Method Bla	ank (1) QC Batch: 79794									
QC Batch: Prep Batch:	79794 67703	Date Analy QC Prepar		11-03-25 11-03-25		Analyzed E Prepared B				

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Report Date: March 28, 2 114-6400628	2011			ler: 11032 ry A Fed.]		umber: Eddy C				
Description	Flore			DL	T	nito			RL		
Parameter DRO	Flag	Result <15.7					nits g/Kg		5		
	<13.7						5/118				
Surrogate Flag	Result	Units				oike Iount	Percent Recovery			covery Jimits	
n-Tricosane	97.5	mg/Kg				00	98	3	7() - 130	
Method Blank (1)	QC Batch: 7979	6									
QC Batch: 79796		Date An	alvzed:	2011-03-	-28			Analy	zed By	AR	
Prep Batch: 67704			paration:						red By:		
Demonstran	Elam			DL		T.	nits			RL	
Parameter Chloride	Flag		Res	suit 1.85		m		<u>4</u>			
	ike (LCS-1)										
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697	ike (LCS-1)	Date An QC Prep	alyzed:	2011-03- 2011-03-					zed By: red By:		
Laboratory Control Sp QC Batch: 79788			alyzed:			М	atrix		red By:		
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param	l R	QC Prep LCS esult 1	alyzed: paration: Units		25 Spike Amoun	t R	esult	Prepa Rec.	ured By:] I	ME Rec. Jimit	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param	l R	QC Prep LCS esult 1	alyzed: paration:	2011-03-	25 Spike	t R		Prepa	ured By:] I	ME Rec.	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO	l R	QC Prep LCS esult 1 18.0 m	alyzed: paration: Units ng/Kg	2011-03- Dil.	25 Spike Amoun 20.0	t Ro	esult).753	Prepa Rec.	ured By:] I	ME Rec. Jimit	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO	I R on the spike resu	QC Prep LCS esult U 18.0 m lt. RPD is 1	alyzed: paration: Units ng/Kg	2011-03- Dil. 1 the spike	25 Spike Amoun 20.0 and spike	t Ro <0 duplicat	esult).753 e result.	Prepa Rec. 90	ured By:] I	ME Rec. .imit) - 95.4	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based	I R on the spike resu LCSD	QC Prep LCS esult 1 18.0 m lt. RPD is 1	alyzed: paration: Units ng/Kg pased on	2011-03- Dil. 1 the spike spike	25 Spike Amoun 20.0 and spike Matrix	t Ro <0 duplicat	esult).753	Prepa Rec. 90	ured By:] I	ME Rec. Jimit J - 95.4 RPD	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based Param	I R on the spike resu	QC Prep LCS esult 1 18.0 m lt. RPD is 1	alyzed: paration: Units ng/Kg	2011-03- Dil. 1 the spike	25 Spike Amoun 20.0 and spike	t Ro duplicat Rec.	esult).753 e result. Rec	Prepa Rec. 90	Inter By:	ME Rec. .imit) - 95.4	
Laboratory Control Sp QC Batch: 79788	on the spike resu LCSD Result 18.1	QC Prep LCS esult U 18.0 m lt. RPD is t t Units mg/Kg	alyzed: paration: Units ng/Kg pased on Dil. 1	2011-03- Dil. 1 the spike Amount 20.0	25 Spike Amoun 20.0 and spike Matrix Result <0.755	t Ro duplicat Rec. 3 90	esult).753 e result. Rec Lim 60.9 -	Prepa Rec. 90	red By: I 60.9 RPD	ME Rec. Joinit J - 95.4 RPD Limit	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based of Param GRO	on the spike resu LCSD Result 18.1 on the spike resu	QC Prep LCS esult U 18.0 m lt. RPD is b t Units mg/Kg lt. RPD is b	alyzed: paration: Units Ig/Kg pased on Dil. 1 pased on	2011-03- Dil. 1 the spike Amount 20.0	25 Spike Amoun 20.0 and spike Matrix Result <0.753 and spike	t Ro cluplicat cluplicat cluplicat cluplicat 	esult 0.753 e result. Rec Lim 60.9 - e result.	Prepa <u>Rec.</u> 90 c. iit 95.4	I 1 60.5 RPD 1	ME Rec. jinit) - 95.4 RPD Limit 20	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based of Param GRO Percent recovery is based of Percent recovery is based of	on the spike resu LCSD Result 18.1 on the spike resu L	QC Prep LCS esult U 18.0 m lt. RPD is 1 t Units mg/Kg lt. RPD is 1 .CS LC	alyzed: paration: Units Ig/Kg pased on Dil. 1 pased on SD	2011-03- Dil. 1 the spike Amount 20.0 the spike	25 Spike Amoun 20.0 and spike Matrix Result <0.753 and spike	t Ro duplicat Rec. 3 90 duplicat Spike	esult).753 e result. Rec Lim 60.9 - e result. LCS	Prepa Rec. 90 c. iit 95.4 LCSE	red By: 1 60.9 <u>RPD</u> 1	ME Rec. jinit) - 95.4 RPD Limit 20 Rec.	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based of Param GRO Percent recovery is based of Surrogate	on the spike resu LCSD Result 18.1 on the spike resu I Ra	QC Prep LCS esult U 18.0 m lt. RPD is 1 t Units mg/Kg lt. RPD is 1 .CS LC esult Res	alyzed: paration: Units 1g/Kg pased on Dil. 1 pased on SD sult	2011-03- Dil. 1 the spike Amount 20.0 the spike	25 Spike Amoun 20.0 and spike Matrix Result <0.755 and spike Dil. A	t Ro duplicat Rec. 3 90 duplicat Spike .mount	esult).753 e result. Rec Lim 60.9 - e result. LCS Rec.	Prepa Rec. 90 c. iit 95.4 LCSE Rec.	RPD 1	ME Rec. imit) - 95.4 RPD Limit 20 Rec. Limit	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based of Param GRO	on the spike resu LCSD Result 18.1 on the spike resu L R 2	QC Prep LCS esult U 18.0 m lt. RPD is 1 t Units mg/Kg lt. RPD is 1 .CS LC	alyzed: paration: Units <u>ng/Kg</u> pased on Dil. 1 pased on SD sult 1 90 n	2011-03- Dil. 1 the spike Amount 20.0 the spike	25 Spike Amoun 20.0 and spike Matrix Result <0.753 and spike	t Ro duplicat Rec. 3 90 duplicat Spike	esult).753 e result. Rec Lim 60.9 - e result. LCS	Prepa Rec. 90 c. iit 95.4 LCSE	RPD 1 61.	ME Rec. imit) - 95.4 RPD Limit 20 Rec. imit 9 - 142	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based Param GRO Percent recovery is based Surrogate Trifluorotoluene (TFT)	on the spike resu LCSD Result 18.1 on the spike resu I Ra 2 BFB) 1	QC Prep LCS esult U 18.0 m lt. RPD is b t Units mg/Kg lt. RPD is b CCS LC esult Res 2.09 1.1	alyzed: paration: Units <u>ng/Kg</u> pased on Dil. 1 pased on SD sult 1 90 n	2011-03- Dil. 1 the spike Amount 20.0 the spike Juits ng/Kg	25 Spike Amoun 20.0 and spike Matrix Result <0.755 and spike Dil. A 1	t Ro duplicat <br< td=""><td>esult).753 e result. Rec Lim 60.9 - e result. LCS Rec. 104</td><td>Prepa Rec. 90 c. iit 95.4 LCSD Rec. 95</td><td>RPD 1 61.</td><td>ME Rec. imit) - 95.4 RPD Limit 20 Rec. imit 9 - 142</td></br<>	esult).753 e result. Rec Lim 60.9 - e result. LCS Rec. 104	Prepa Rec. 90 c. iit 95.4 LCSD Rec. 95	RPD 1 61.	ME Rec. imit) - 95.4 RPD Limit 20 Rec. imit 9 - 142	
Laboratory Control Sp QC Batch: 79788 Prep Batch: 67697 Param GRO Percent recovery is based of Param GRO Percent recovery is based of Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-1)	on the spike resu LCSD Result 18.1 on the spike resu I Ra 2 BFB) 1	QC Prep LCS esult U 18.0 m lt. RPD is b t Units mg/Kg lt. RPD is b CCS LC esult Res 2.09 1.1	alyzed: paration: units ng/Kg pased on Dil. 1 pased on SD sult 1 90 m 67 m	2011-03- Dil. 1 the spike Amount 20.0 the spike Juits ng/Kg	25 Spike Amoun 20.0 and spike Matrix Result <0.753 and spike Dil. A 1 1	t Ro duplicat <br< td=""><td>esult).753 e result. Rec Lim 60.9 - e result. LCS Rec. 104</td><td>Prepa Rec. 90 c. iit 95.4 LCSE Rec. 95 84</td><td>RPD 1 61.</td><td>ME Rec. jinit) - 95.4 RPD Limit 20 Rec. Limit 9 - 142 2 - 132</td></br<>	esult).753 e result. Rec Lim 60.9 - e result. LCS Rec. 104	Prepa Rec. 90 c. iit 95.4 LCSE Rec. 95 84	RPD 1 61.	ME Rec. jinit) - 95.4 RPD Limit 20 Rec. Limit 9 - 142 2 - 132	

Report Date: March 2 114-6400628	28, 2011				ler: 110325 ry A Fed.			Page	Number Eddy	: 8 of 1 Co., NI
						Spike	Matr			Rec.
Param		Resu		Units		Amount	Resu			Limit
DRO		262		mg/Kg		250	<15.		47.5	5 - 144.
Percent recovery is bas	sed on the s	pike result.	RPD is	based on	the spike a	nd spike d	uplicate i	esult.		
		LCSD			Spike	Matrix		Rec.		RPI
Param	Resul		Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limi
DRO		275	mg/Kg	1	250	<15.7	110	47.5 - 144.1	5	20
Percent recovery is bas	sed on the s	pike result.	RPD is	based on	the spike a	nd spike d	uplicate i	esult.		
	LCS	LCSD				Spike	LC	S LCS	U.	Rec.
Surrogate	Result	Result	t	Inits	Dil.	Amount	Red			Limit
n-Tricosane	110	118		g/Kg	1	100	110			70 - 13
QC Batch: 79796 Prep Batch: 67704		T C	QC Pre	nalyzed: paration:	2011-03-2 2011-03-2	25	λ. Γ.	Pro	alyzed By pared By	7: AF
Param		LC Res		Units	Dil.	Spike Amount		ıtrix sult R	ec.	Rec.
Chloride		95		mg/Kg	1	100				$\frac{1}{85 - 11}$
Percent recovery is bas	sed on the s	pike result.			the spike a	nd spike d	uplicate 1	esult.		
		LCSD			Spike	Matrix	-	Rec.		RPI
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limi
Chloride	······································	106	mg/K		100	<3.85	106	85 - 115	10	20
Percent recovery is bas Matrix Spike (MS-1 QC Batch: 79788 Prep Batch: 67697		pike result. I Sample: 26	61797 Date Ai	based on nalyzed: paration:	the spike a 2011-03-2 2011-03-2	26	uplicate 1	An	alyzed By pared By	
Param		MS Resu		Units	Dil.	Spike Amount	Mat Res		7	Rec. Limit
GRO		20.7		ng/Kg	1	20.0	<0.7			
Percent recovery is bas	ed on the s	pike result.			the spike a					
v		MSD			-	-	-			זממ
		Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPI Limi
Param										

Report Date: March 28, 2011 114-6400628		Work Order: 11032527 COG/Berry A Fed. #1							:: 9 of 11 Co., NM
	MS	MSD			Spike	MS	MS	D	Rec.
Surrogate	Result	Result	Units	Dil. A	mount	Rec.	Rec	:.	Limit
Trifluorotoluene (TFT)	2.66	2.72	mg/Kg	1	2	133	130	3	50 - 162
4-Bromofluorobenzene (4-BFB)	2.25	2.27	mg/Kg	1	2	112	114	1	50 - 162
Matrix Spike (MS-1) Spike	ed Sample: 2617	97							
QC Batch: 79794 Prep Batch: 67703		ate Analyzed: C Preparation	2011-03- : 2011-03-					yzed I ared I	
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result		Rec.		Rec. Limit
DRO	217	mg/Kg	1	250	<15.7		87	11.	7 - 152.3
Percent recovery is based on the	spike result. RI		the spike a	and spike o	luplicate re	sult.			
Danam	MSD	nits Dil.	Spike Amount	Matrix	Dee	Rec. Limit		RPD	RPD Limit
Param			Amount	Result	Rec.				
DRO	205 m	$r/K\sigma = 1$	250	<15.7	82 11	7 - 15	52.3	6	- 20
· · · · · · · · · · · · · · · · · · ·		g/Kg 1 PD is based on	250 the spike a	<15.7 and spike c		l.7 - 13 sult.	52.3	6	20
						sult.	52.3 MSD	6	Rec.
Percent recovery is based on the MS Surrogate Result	spike result. RI MSD Result	PD is based on Units		and spike o Spike Amount	luplicate re MS t Rec	sult.	MSD Rec.	6	Rec. Limit
	spike result. RI MSD	PD is based on	the spike a	and spike o Spike	luplicate re MS	sult.	MSD	6	Rec.
Percent recovery is based on the MS Surrogate Result n-Tricosane 111	spike result. RI MSD Result	PD is based on Units mg/Kg	the spike a	and spike o Spike Amount	luplicate re MS t Rec	sult.	MSD Rec.	6	Rec. Limit
Percent recovery is based on the MS Surrogate Result n-Tricosane 111 Matrix Spike (MS-1) Spike	spike result. RI MSD Result 120 ed Sample: 2618	PD is based on Units mg/Kg 04	the spike a	and spike o Spike Amount 100	luplicate re MS t Rec	sult.	MSD Rec. 120		Rec. Limit 70 - 130
Percent recovery is based on the MS Surrogate Result n-Tricosane 111	spike result. RI MSD Result 120 ed Sample: 2618 D	PD is based on Units mg/Kg	the spike ε Dil. 1 2011-03-	and spike of Spike Amount 100 28	luplicate re MS t Rec	sult.	MSD Rec.	zed B	Rec. Limit 70 - 130 y: AR
Percent recovery is based on the MS Surrogate Result n-Tricosane 111 Matrix Spike (MS-1) Spike QC Batch: 79796	spike result. RI MSD Result 120 ed Sample: 2618 D	PD is based on Units mg/Kg 04 ate Analyzed:	the spike ε Dil. 1 2011-03-	and spike of Spike Amount 100 28	luplicate re MS t Rec	sult.	MSD Rec. 120	zed B	Rec. Limit 70 - 130 y: AR
Percent recovery is based on the MS Surrogate Result n-Tricosane 111 Matrix Spike (MS-1) Spike QC Batch: 79796	spike result. RI MSD Result 120 ed Sample: 2618 D. Q MS Result	PD is based on Units mg/Kg 04 ate Analyzed:	the spike ε Dil. 1 2011-03- 2011-03- Dil.	and spike of Spike Amount 100 28 25	luplicate re MS t Rec 111	sult. 	MSD Rec. 120	vzed B ured B	Rec. Limit 70 - 130 Cy: AR y: AR y: AR Rec. Limit
Percent recovery is based on the MS Surrogate Result n-Tricosane 111 Matrix Spike (MS-1) Spike QC Batch: 79796 Prep Batch: 67704 Param	spike result. RI MSD Result 120 ed Sample: 2618 D. Q MS	PD is based on Units mg/Kg 04 ate Analyzed: C Preparation	the spike ε Dil. 1 2011-03- 2011-03-	and spike of Spike Amound 100 28 25 Spike	luplicate re MS t Rec 111 111 t Res	sult.	MSD Rec. 120 Analy Prepa	vzed B ured B	Rec. Limit 70 - 130 y: AR y: AR y: AR Rec.
Percent recovery is based on the MS Surrogate Result n-Tricosane 111 Matrix Spike (MS-1) Spike QC Batch: 79796 Prep Batch: 67704	spike result. RH MSD Result 120 ed Sample: 2618 D Q MS Result 9600	PD is based on Units mg/Kg 04 ate Analyzed: C Preparation Units mg/Kg	the spike a Dil. 1 2011-03- 2011-03- Dil. 100	and spike of Spike Amount 100 28 25 Spike Amoun 10000	luplicate re MS t Rec 111 111 t t Res <38	rix ult 35	MSD Rec. 120 Analy Prepa Rec.	vzed B ured B	Rec. Limit 70 - 130 Cy: AR y: AR y: AR Rec. Limit
Percent recovery is based on the MS Surrogate Result n-Tricosane 111 Matrix Spike (MS-1) Spike QC Batch: 79796 Prep Batch: 67704 Param Chloride	spike result. RH MSD Result 120 ed Sample: 2618 D Q MS Result 9600	PD is based on Units mg/Kg 04 ate Analyzed: C Preparation Units mg/Kg	the spike a Dil. 1 2011-03- 2011-03- Dil. 100	and spike of Spike Amount 100 28 25 Spike Amoun 10000	luplicate re MS t Rec 111 111 kt Res <33 luplicate re	rix ult 35	MSD Rec. 120 Analy Prepa Rec. 96	vzed B ured B	Rec. Limit 70 - 130 Cy: AR y: AR y: AR Rec. Limit
Percent recovery is based on the MS Surrogate Result n-Tricosane 111 Matrix Spike (MS-1) Spike QC Batch: 79796 Prep Batch: 67704 Param Chloride	spike result. RI MSD Result 120 ed Sample: 2618 D Q MS Result 9600 spike result. RI MSD	PD is based on Units mg/Kg 04 ate Analyzed: C Preparation Units mg/Kg	the spike a Dil. 1 2011-03- 2011-03- Dil. 100 the spike a	and spike of Spike Amount 100 28 25 28 25 28 25 28 25 28 25 28 25 28 25 28 25 20 20 20 20 20 20 20 20 20 20 20 20 20	luplicate re MS t Rec 111 111 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	rix ult 85 sult.	MSD Rec. 120 Analy Prepa Rec. 96	vzed B ured B	Rec. Limit 70 - 130 y: AR y: AR y: AR Rec. Limit 80 - 120

Standard (CCV-1)

QC Batch: 79788

Date Analyzed: 2011-03-26

Analyzed By: ME

Report Date: March 28, 2011 114-6400628				ork Order: 110 OG/Berry A Fe		Page N	umber: 10 of Eddy Co., N
Param Flag			CCVs	CCVs	CCVs	Percent	_
D		T	True	Found	Percent	Recovery	Date
GRO	Flag	Units	Conc. 1.00	<u>Conc.</u> 1.06	Recovery 106	Limits 80 - 120	Analyze 2011-03-3
GRU		mg/Kg	1.00	1.00	100	60 - 120	2011-03-
Standard (CCV-2)						
QC Batch:	79788		Date Ana	lyzed: 2011-03	3-26	Anal	yzed By: Ml
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyze
GRO		mg/Kg	1.00	1.02	102	80 - 120	2011-03-
Standard (QC Batch:				alyzed: 2011-0			alyzed By: 1
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
			~	a	-	-	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	
Param DRO	Flag	Units mg/Kg	Conc. 250	Conc	Recovery 114	Limits 80 - 120	
DRO	CCV-2)		250		114	80 - 120	2011-03-
DRO Standard (CCV-2)		250	284	114)3-25 CCVs	80 - 120	2011-03- alyzed By: k
DRO Standard (CCV-2) 79794	mg/Kg	250 Date Ana CCVs True	284 alyzed: 2011-0 CCVs Found	114 13-25 CCVs Percent	80 - 120 Ana Percent Recovery	Analyze 2011-03- alyzed By: k Date
DRO Standard (QC Batch: Param	CCV-2)	mg/Kg Units	250 Date Ana CCVs True Conc.	284 alyzed: 2011-0 CCVs Found Conc.	114 03-25 CCVs Percent Recovery	80 - 120 Ana Percent Recovery Limits	2011-03- alyzed By: k Date Analyze
DRO Standard (QC Batch:	CCV-2) 79794	mg/Kg	250 Date Ana CCVs True	284 alyzed: 2011-0 CCVs Found	114 13-25 CCVs Percent	80 - 120 Ana Percent Recovery	2011-03- alyzed By: k Date Analyze
DRO Standard (QC Batch: Param	CCV-2) 79794 Flag	mg/Kg Units	250 Date Ana CCVs True Conc.	284 alyzed: 2011-0 CCVs Found Conc.	114 03-25 CCVs Percent Recovery	80 - 120 Ana Percent Recovery Limits	2011-03-
DRO Standard (QC Batch: Param DRO	CCV-2) 79794 Flag ICV-1)	mg/Kg Units	250 Date Ana CCVs True Conc. 250	284 alyzed: 2011-0 CCVs Found Conc.	114 03-25 CCVs Percent Recovery 111	80 - 120 Ana Percent Recovery Limits 80 - 120	2011-03- alyzed By: k Date Analyze 2011-03-
DRO Standard (QC Batch: Param DRO Standard (CCV-2) 79794 Flag ICV-1)	mg/Kg Units	250 Date Ana CCVs True Conc. 250	284 alyzed: 2011-0 CCVs Found Conc. 277	114 03-25 CCVs Percent Recovery 111	80 - 120 Ana Percent Recovery Limits 80 - 120	2011-03- alyzed By: k Date Analyze 2011-03-
DRO Standard (QC Batch: Param DRO Standard (CCV-2) 79794 Flag ICV-1)	mg/Kg Units mg/Kg	250 Date And CCVs True Conc. 250 Date Ana	284 alyzed: 2011-0 CCVs Found Conc. 277 lyzed: 2011-0	114 13-25 CCVs Percent Recovery 111 3-28	80 - 120 Ana Percent Recovery Limits 80 - 120 Ana	2011-03- alyzed By: k Date Analyze
DRO Standard (QC Batch: Param DRO Standard (CCV-2) 79794 Flag ICV-1)	mg/Kg Units	250 Date Ana CCVs True Conc. 250 Date Ana ICVs	284 alyzed: 2011-0 CCVs Found Conc. 277 lyzed: 2011-0 ICVs	114 13-25 CCVs Percent Recovery 111 3-28 ICVs	80 - 120 Ana Percent Recovery Limits 80 - 120 Ana Percent	2011-03- alyzed By: 4 Date Analyze 2011-03-

Report Date 114-6400628	:: March 28, 2	2011		ork Order: 1103 G/Berry A Fee		Page N	umber: 11 of 11 Eddy Co., NM
Ð			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	98.9	99	85 - 115	2011-03-28

XWO#:	11032527																		•		
	st of Chain of Custod	vF	le	CC	ord									PAGE	·	1		QF	:	<u> </u>	
	3										(Ci			SIS F pecify)			
CLIENT NAME:	TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946		-1			ATIVE		TX1005 (Ext. to C35)	Ba Cd Cr Pb Hg Se	Cd Vr Pd Hg			624	620/					pri 109		
PROJECT NO.: PROJECT N	IKE TAVGYER	CONTAINERS	F	M	ETHO	00	4 1		2	2	8		8260/	220					R S		
14-6400628 COG	Birry A Fed #1 Eddy Co, NM	CON	٤.					N	ls Ag	BY SI	Volati		8240/	908 1908	g	ģ	(Air)	tos)	18/Ca		
LAB I.D. NUMBER DATE TIME TIME AWOOD	Eddy Co, NM SAMPLE IDENTIFICATION	NUMBER OF	FILTERED (Y/N) HCL	HN03	ICE	NONE	BTEX 80218	CPH 8015 MOD	RCRA Meta	TCLP Meta	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	PCB's 8080	Pest. 808/608	Chionde Gamma Sp	Alpha Beta (Air)	PLM (Asbestos)	Major Amora/Caudra,		
261798 3/23 5 X	65-1	1			X			X								X					
799	(5-2															/					
008	C>-3																	4			
801	C5-4				\prod					T						\mathbf{M}					
80-17	es- 5			Γ																	
803	C5-6	Π		Τ	\prod							Π				$\left[\right]$					
8021 2 2 4	(5-7	*			¥																
																1					
	21						Π				Τ					Τ				,	
RELINQUISHED BY: (Signatura)	ime: 15 25	~		Date: Time:		5/2	5	s	AMPL	ED B	r: (Prin	t & In	J1	-	·			ate: 🔔	5J G.	<i>¥″</i>	-
	ate: RECEIVED BY: (Signature)			Date: Time:				-	FEOE	x	PPED	_ `	BUS				AIRE	31LL #:			-
Т	ate: RECEIVED BY: (Signature)			Date: Time:					ETRA	TECH	CON	ACT	-				0.0		its by:		Ч
RECEIVING LABORATORY: <u>Tract</u> ADDRESS: CITY: <u>MIdland</u> STATE: <u>TX</u> CONTACT: PHONE	RECEIVED BY: (Signature)	TIM						-	۔ بر	Tk	ć	Tar	Var.	(Ŧ				RUSH Autho	I Chan	tes No	-
SAMPLE CONDITION WHEN RECEIVED: 312 IN FACT	REMARKS: XALI Jestz-Midl																		~		

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

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