# SITE INFORMATION

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l,	SITE INFORMATION									
Report Type	e: Assessmo	ent and Clo	osure Report							
	ormation:					e na serie a serie de la s La serie de la s				
Site:		Skelly 606 Ta			ì	RECEIVED				
Company:		COG Operati		<u></u>		HEVENED	1			
Section, Towns	hip and Range		S R31E Unit J FEB 1 7 2010							
Lease Number:	<u> </u>	API-30-015-36	6765				1			
County:		Eddy County		<u></u>		NMOCD ABTESIA	ŕ			
GPS:		32.818480° N,	103.873063° W		1					
Surface Owner:		Federal								
Mineral Owner:										
Directions:	, , , , , , , , , , , , , , , , ,	From the interse 0.1 miles to loca		travel east o	n 82 0.3 miles,	turn left (north) 0.2 miles, tur				
Release Data:										
Date Released:	al all the second and the Cash	10/10/2009	area de la constant d	national Property Decision		i art manager fineralis y statistic to a second	164 X 4 19.			
Type Release:		Produced wate	ar.							
Source of Contar	nination.	Flowline leak								
Fluid Released:		20 barrels	- <u></u>	. <u></u>	·· <del>···································</del>					
Fluids Recovered	<i>l:</i>	15 barrels	······································							
	nication:	and the second se								
Name:	Pat Ellis			Kim Dorey						
Company:	COG Operating, LL		ŀ	Tetra Tech						
Address:	550 W. Texas Ave.				1910 N. Big Sp	ring				
P.O. Box										
City:	Midland Texas, 797	701		1	Midland, Texas					
Phone number:	(432) 686-3023			í	(432) 631-0348					
Fax:	(432) 684-7137									
Email;	pellis@conchoresc	urces.com			kim.dorey@te	tratech.com				
Ranking Criteria										
<b>Depth to Groundw</b> <50 ft	/ater:		Ranking Score		Si	ite Data				
<50 π 50-99 ft		<u></u>	20 10							
>100 ft.	. <u></u>	1 W M	0	••••••••••••••••••••••••••••••••••••••	areato	er than 300'				
······					3.000					
WellHead Protecti			Ranking Score		Si	ite Data				
	000 ft., Private <200 f		20							
Water Source >1,0	000 ft., Private >200 f	t	0			0				
Surface Body of V	Vater:		Ranking Score		Si	ite Data				
<200 ft.			20							
200 ft - 1,000 ft.			10							
>1,000 ft.			0		· · · · · · · · · · · · · · · · · · ·	0				
To and the second s	tal Ranking Score					1				
		Accepta	ble Soil RRAL (m	j/kg)		1				
{		Benzene	Total BTEX	TPH		·				
1										
		10	50	5,000		1				



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February 4, 2010

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., Skelly 606 Tank Battery, Unit J, Section 21, Township 17 South, Range 31 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Skelly 606 Tank Battery located in Unit J, Section 21, Township 17 South, Range 31 East, Eddy County, New Mexico. The spill site coordinates are N 32.818480°, W 103.873063°. The site location is shown on Figures 1 and 2.

#### Background

According to the State of New Mexico C-141 Initial Report, on October 10, 2009, a flowline failed, releasing approximately twenty (20) barrels of produced water. Fifteen (15) barrels of standing fluids were recovered. The spill remained on the caliche pad and pooled southeast of the wellhead in an area approximately 85' x 50'. The initial C-141 form is enclosed in Appendix A.

#### Groundwater

No water wells were listed within Section 21. According to the



Geology and Groundwater Resources of Eddy County, New Mexico (Report 3), one well is located in Section 34, with reported depth to water of 271' below surface. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 300' below surface. The Geology and Groundwater Resources of Eddy County, New Mexico (Report 3) well report data is shown in Appendix B.

#### Regulatory

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

# Soil Assessment and Corrective Action

On November 3, 2009, Tetra Tech personnel inspected and sampled the spill area. Seven (7) auger holes (AH-1 through AH-7) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, elevated chloride concentrations were detected at AH-1 (0-1') of 2,620 mg/kg, AH-3 (0-1') of 3,270 mg/kg, and AH-5 (0-1') of 6,100. The deeper samples (1-1.5') showed declining in chloride concentrations. All of the submitted samples were below the RRAL for BTEX and TPH.

On December 12, 2009, Tetra Tech personnel were onsite to supervise the excavation at AH-1, AH-3, and AH-5 to removed 1.0' of chloride impacted soil. Approximately eighty (80) cubic yards of material



was removed and hauled to Controlled Recovery, Inc., of Hobbs, New Mexico for disposal.

#### Conclusion

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

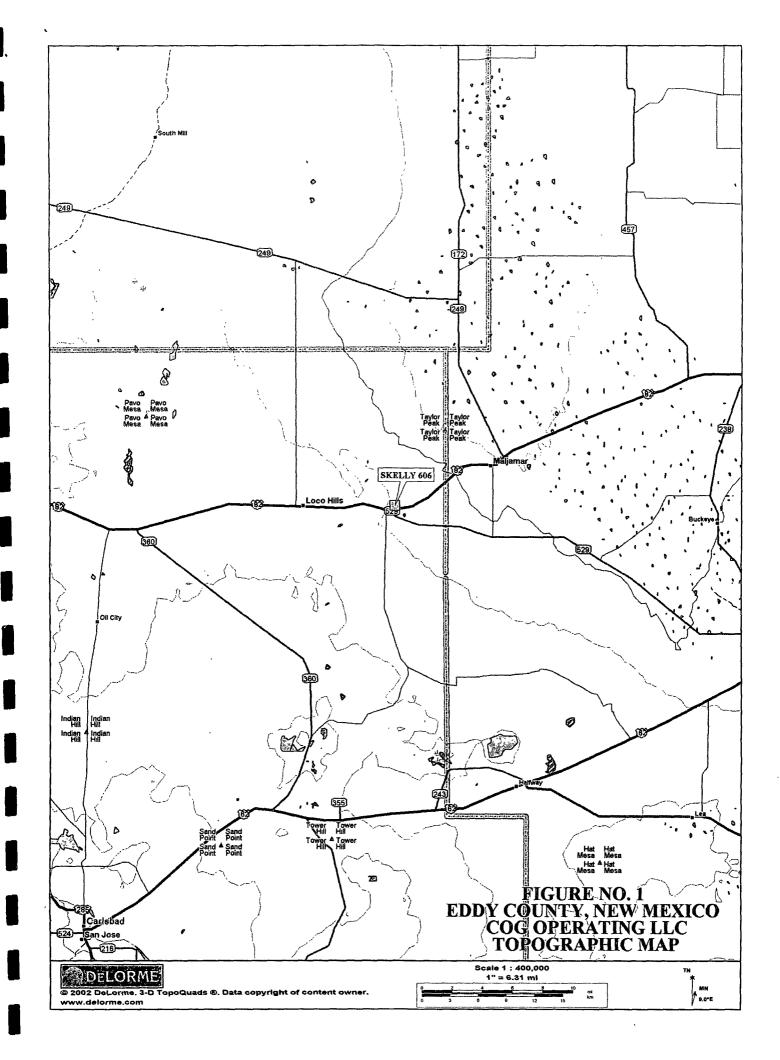
> Respectfully submitted, Tetra Tech, Inc

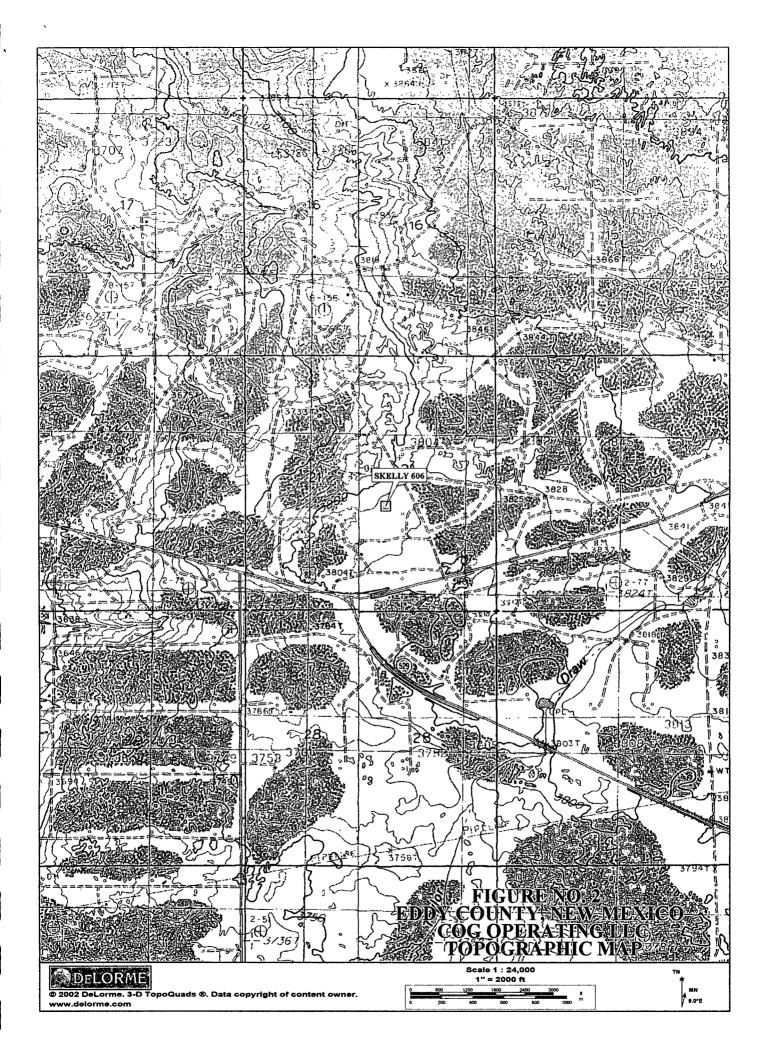
 $\rightarrow$ 

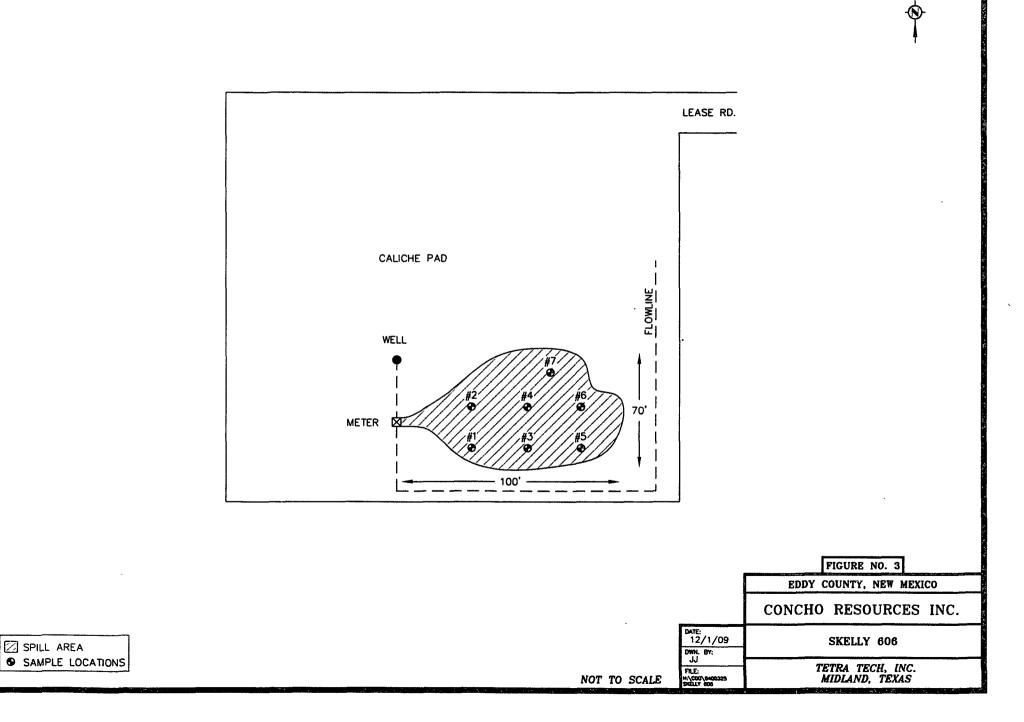
Kim Dorey Staff Geologist

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

FIGURES







TABLES

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#### Table 1 COG Operating LLC Skelly 606 Tank Battery Eddy County, New Mexico

.

Sample	Date	Sample	Soil S	Status		TPH (mg/kg	1)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
ID	Sampled	Depth (ft)	In-Situ	Removed	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
AH-1	11/3/2009	0-1'		X	<50.0	<1.00	<50.0		<0.0100	<0.0100	<0.0100	<0.0100	2620
	11/3/2009	1-1.5'	х										<200
	11/3/2009	2-2.5'	х										<200
AH-2	11/3/2009	0-1'	x		336	19.4	355.4						469
	11/3/2009	1-1.5'	х										237
	11/3/2009	2-2.5'	х										<200
AH-3	11/3/2009	0-1'		x	<50.0	<1.00	<50.0		<0.0100	<0.0100	<0.0100	<0.0100	3270
	11/3/2009	1-1.5'	х										366
	11/3/2009	2-2.5'	X										<200
AH-4	11/3/2009	0-1'	x		<50.0	1.41	1.41		<0 0100	<0.0100	<0.0100	<0.0100	850
	11/3/2009	1-1.5'	x										<200
	11/3/2009	2-2.5'	<u>x</u>							·			<200
		<u> </u>											
<u>AH-5</u>	11/3/2009	0-1'		x	<50.0	<1.00	<50.0		<0.0100	<0.0100	<0.0100	<0.0100	6100 ,,
L	11/3/2009	1-1.5'	X										<200
	11/3/2009	2-2.5'	x										<200
									<u> </u>	ļ			
AH-6	11/3/2009	0-1'	<u>x</u>		<50.0	<1.00	<50.0	L					261
	11/3/2009	1-1.5'	<u>x</u>			<u> </u>				<u> </u>			<200
	11/3/2009	2-2.5'	X					L					<200
		Ļ				ļ		L	ļ	ļ		L	
AH-7	11/3/2009	0-1'	<u>x</u>		<50.0	<1.00	<50.0	<u> </u>					<200
	11/3/2009	1-1.5'	x					ļ	<u> </u>				<200
	11/3/2009	2-2.5'	<u>x</u>	<u> </u>				<u> </u>					<200
							l	<u> </u>	<u> </u>		L	<u> </u>	<u> </u>

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(-) Not Analyzed

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# **APPENDIX A**

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Fe, NM 87505 \*\*\*Amended Report

# **Release Notification and Corrective Action**

	OPERATOR	🛛 Initial Report	Final Report
Name of Company COG OPERATING LLC 229137	Contact Kanicia Carrillo		
Address 550 W. Texas, Suite 1300 Midland, TX 79701	Telephone No. 432-685-4332		
Facility Name – Skelly Unit 606	Facility Type- Battery		
racility Name - Skelly Unit 606	Facility Type- Battery		

Surface Owner State	Mineral Owner	Lease No. 30-015-36765
30 015 36765	LOCATION OF RELEASE	

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
J	21	175	31E	2110	South	2310	East	Eddy	
	]				1				

#### Latitude 32.818480 Longitude 103.873063

#### NATURE OF RELEASE

Type of Release-Produced Water	Volume of Release-20bbls	Volume Recovered- 15bbls			
Source of Release- Flowline leak	Date and Hour of Occurrence- Date and Hour of Discovery				
	10/10/09 am	10/10/09 am			
Was Immediate Notice Given?	If YES, To Whom?				
By Whom?	Date and Hour				
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.			
If a Watercourse was Impacted, Describe Fully.*					

Describe Cause of Problem and Remedial Action Taken.\*

Flowline leak. Repaired leak. Spill remained on pad and did not go into pasture.

#### Describe Area Affected and Cleanup Action Taken.\*

Vacuumed up all fluid. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD/BLM for your approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Victoria Carrillo	Approved by District Supervisor:	VATION DIVISION
Title: Regulatory Analyst	Approval Date: 3.31.10	Expiration Date:
E-mail Address: kcarrillo@conchoresources.com	Conditions of Approval:	Attached
Date: 10/21/09 Phone: 432-685-4332		f

Attach Additional Sheets If Necessary

2RP-399

District I       State         1625 N. French Dr., Hobbs, NM 88240       Energy Miner         District II       Energy Miner         1301 W. Grand Avenue, Artesia, NM 88210       State						f New Mex and Natura				Form C-14 Revised October 10, 20
vistrict III			•	Oil	Conse	rvation Div	vision			Submit 2 Copies to appropria District Office in accordan
2200 $R$ $L$ $D$ $R$ $L$ $D$ $R$ $L$ $D$ $NL (27605)$					h St. Franc				with Rule 116 on ba side of for	
220 S. St. Fran	cis Dr., Sant	a re, inimi 87503				Fe, NM 875				
ASEDLO090	-	1					orrective A	ction		
SED 10000		550 100 1048		229131	87/	OPERA' Contact Pa			Initia	l Report 🛛 Final Rep
				nd, Texas 797(	)1		No. (432) 685-4	4332		
Facility Nat	me Skelly	Unit 606				Facility Typ	e Tank Batte	ry		
Surface Ow			J	Mineral	Owner			L	ease N	o. 30-015-36765
30.01574	6765			LOC	ATIC	N OF RE	LEASE			
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/West	Line	County
J	21	175	31E	2110	Sout	h	2310	East		Eddy
			L	atitude N 32.8	18480	)° Longitud	e W 103.8730	63°		
						E OF REL				
Type of Rele		ced water				Volume of	Release 20 bbls			ecovered 15 bbls
Source of Re Flowline lea						Date and H 10/10/09	Iour of Occurrent		ite and I /10/09 A	Hour of Discovery
Was Immedi					aquira	· If YES, To		110,	10/07 1	
Yes   No   Not Required						Date and H	Iour			
Was a Watercourse Reached?						blume Impacting	the Watercou	urse.		
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*		···· L				
N/A										
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*						······································
Flowline leal	ked. COG r	epaired flowli	ne. Spill r	emained on pad a	nd did	not go into pas	ture.			
				L						
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*						
Tetra Tech ir	spected site	and collecter	i samnles	to define spills e	stent S	oil with elevate	ed chlorides conc	entration we	re remo	ved and hauled away to
Controlled R	ecovery, In	c., Hobbs, NM								repared closure report and
submitted to	NMOCD fo	or review.								
										ant to NMOCD rules and ases which may endanger
public health	or the envi	ronment. The	acceptan	ce of a C-141 rep	ort by t	he NMOCD m	arked as "Final R	eport" does	not relie	eve the operator of liability
										surface water, human health mpliance with any other
		ws and/or regu						_ 	-	·····
	- N	TR.	/				OIL CON	<u>SERVAT</u>	<u>'10N  </u>	DIVISION
Signature:	[][4		V	<u>,</u>			$\checkmark$	1A		
	e: <u>Ike Tav</u> ar	rez				Approved	District Supervis	or:		
Printed Name						Approval Dat	e: 3,21-10	/ Expi	ration I	Date: N/K
Printed Name	Manager									
Title: Project		rez@tetratech	.com			Conditions of	Approval:	) /		Attached
Title: Project		rez@tetratech		: (432) 682-4559		Conditions of	Approval:	)la		Attached TA

# **APPENDIX B**

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#### Water Well Data Average Depth to Groundwater (ft) St. Mary - ESDU Injection Station Eddy County, New Mexico

_	16	South		t i	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	17 :	South	:	30 Eas	t
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	16 Sc	outh	31	East	
6	5	4	3	2	1
7	8	9	10	11	12 288
18	17	16	15	14	13 <b>113</b>
19	20	21	22	23	24
30	29	28	27	26	25
31 <b>290</b>	32	33	34	35	36

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

7	8	9	10	11	12
	1				215
18	17	16	15	14	13
		221			215
19	20	21	22	23	24
220		210		210	
30	29	28	27	26	25
		_	_	243	
31	32	33	34	35	36
	<u> </u>		<u></u>		260
	17 9	South	32	2 East	
6	5	4 82		2 60	1 225
-	ľ		175		
7	8	9	10	11 70	12
				88	
18	17	16	15	14	13
	1	1.		ļ	
19	20	21	22	23	24
30	29	28	27	26	25
	29	20	21	20	25
180 dry 31	32	33	34	35	36
31	32	33	34	35	30
	10.0				
		South		East	
6	5	4 65	3 TMW	2	1
7 460	8	9	10	11	12
82					

16 South

32 East

265 1

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

180 dry								
31	32	33	34	35	36			
18 South 32 East								
6	5	4 65	3 тмw	2	1			
7 460	8	9	10	11	12			
82								
18	17	16	15	14	13			
	1	84		1				
19	20	21	22	23	24			
	164	1	429	1				
30	29	28	27	26	25			
31	32	33	34	35	36			
			117					

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

18 South

90 Geology and Groundwater Conditions in Southern Lea, County, NM

34 NMOCD - Groundwater Data

123 Field water level

362 New Mexico Water and Infrastructure Data System

30 East

# **APPENDIX C**

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# **Summary Report**

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

Report Date: November 13, 2009

Work Order: 9110619

Project Location:	Eddy Co., NM
Project Name:	COG/Skelly 606 TB
Project Number:	114-6400325

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
214235	AH-1 0-1'	soil	2009-11-03	00:00	2009-11-06
214236	AH-1 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214237	AH-1 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214238	AH-2 0-1'	soil	2009-11-03	00:00	2009-11-06
214239	AH-2 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214240	AH-2 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214241	AH-3 0-1'	soil	2009-11-03	00:00	2009-11-06
214242	AH-3 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214243	AH-3 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214244	AH-4 0-1'	soil	2009-11-03	00:00	2009-11-06
214245	AH-4 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214246	AH-4 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214247	AH-5 0-1'	soil	2009-11-03	00:00	2009-11-06
214248	AH-5 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214249	AH-5 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214250	AH-6 0-1'	soil	2009-11-03	00:00	2009-11-06
214251	AH-6 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214252	AH-6 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214253	AH-7 0-1'	soil	2009-11-03	00:00	2009-11-06
214254	AH-7 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214255	AH-7 2'-2.5'	soil	2009-11-03	00:00	2009-11-06

			TPH GRO		
	Benzene	Toluene	Ethylbenzene	Xylene	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
214235 - AH-1 0-1'	< 0.0100	< 0.0100	<0.0100	< 0.0100	<1.00
214238 - AH-2 0-1'					19.4
214241 - AH-3 0-1'	< 0.0100	< 0.0100	< 0.0100	<0.0100	<1.00
214244 - AH-4 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	1.41

continued ...

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.

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#### Report Date: November 13, 2009

 $\dots$  continued

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			EX		TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
214247 - AH-5 0-1'	< 0.0100	< 0.0100	< 0.0100	<0.0100	<1.00
214250 - AH-6 0-1'					<1.00
214253 - AH-7 0-1'					<1.00
Sample: 214235 - AH	I-1 0-1'				
Param	Flag	Result		Units	R
Chloride		2620		mg/Kg	4.0
DRO		<50.0	· · · · · · · · · · · · · · · · · · ·	mg/Kg	50.
Sample: 214236 - AH Param	I-1 1'-1.5' Flag	Result		Units	R
Chloride		<200		mg/Kg	4.0
Sample: 214237 - AH Param Chloride	<b>I-1 2'-2.5'</b> Flag	Result <200		Units mg/Kg	
Param					
Param	Flag				
Param Chloride	Flag I-2 0-1'				4.0
Param Chloride Sample: 214238 - AH	Flag	<200		mg/Kg	4.0 RJ
Param Chloride Sample: 214238 - AH Param	Flag I-2 0-1'	<200 Result		mg/Kg Units	4.0 R: 4.0
Param Chloride Sample: 214238 - AH Param Chloride	Flag I-2 0-1' Flag	<200 Result 469		mg/Kg Units mg/Kg	4.0 R: 4.0
Param Chloride Sample: 214238 - AH Param Chloride DRO Sample: 214239 - AH	Flag I-2 0-1' Flag I-2 1'-1.5'	<200 Result 469 336		mg/Kg Units mg/Kg mg/Kg	4.0 Ri 4.0 50.
Param Chloride Sample: 214238 - AH Param Chloride DRO	Flag I-2 0-1' Flag	<200 Result 469		mg/Kg Units mg/Kg mg/Kg Units	4.0 RJ 4.0 50.
Param Chloride Sample: 214238 - AH Param Chloride DRO Sample: 214239 - AH Param Chloride	Flag I-2 0-1' Flag I-2 1'-1.5' Flag	<200 Result 469 336 Result		mg/Kg Units mg/Kg mg/Kg	4.0 RJ 4.0 50.
Param Chloride Sample: 214238 - AH Param Chloride DRO Sample: 214239 - AH Param Chloride Sample: 214240 - AH	Flag I-2 0-1' Flag I-2 1'-1.5' Flag I-2 2'-2.5'	<200 Result 336 Result 237		mg/Kg Units mg/Kg mg/Kg Units mg/Kg	4.0 Rl 4.0 50. Rl 4.0
Param Chloride Sample: 214238 - AH Param Chloride DRO Sample: 214239 - AH Param Chloride	Flag I-2 0-1' Flag I-2 1'-1.5' Flag	<200 Result 469 336 Result		mg/Kg Units mg/Kg mg/Kg Units	RJ 4.00 81 4.00 50.0 81 4.00 81 4.00 81 4.00

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Report Date: November 13, 2009		Work Order: 9110619	]	Page Number: 3 of 4
Sample: 214241 -	AH-3 0-1'			
Param	Flag	Result	Units	RI
Chloride		3270	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0
Sample: 214242 -	AH-3 1'-1.5'			
Param	Flag	Result	Units	RI
Chloride		366	mg/Kg	4.00
Sample: 214243 -	AH-3 2'-2.5'			
Param	Flag	Result	Units	RI
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.(
Sample: 214245 -	AH-4 1'-1.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 214246 -	AH-4 2'-2.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 214247 -	AH-5 0-1'			
Param	Flag	Result	Units	RL
Chloride		6100	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

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Report Date: November 13, 2009		Work Order: 9110619	Page	Page Number: 4 of 4	
Param	Flag	Result	Units	RL	
Chloride		<200	mg/Kg	4.00	
Sample: 214249					
Param	Flag	Result	Units	RL	
Chloride		<200	mg/Kg	4.00	
Sample: 214250	- AH-6 0-1'				
Param	Flag	Result	Units	$\operatorname{RL}$	
Chloride	~	261	mg/Kg	4.00	
DRO		<50.0	mg/Kg	50.0	
Sample: 214251	- AH-6 1'-1.5'				
Param	Flag	$\operatorname{Result}$	Units	$\operatorname{RL}$	
Chloride	······	<200	mg/Kg	4.00	
Sample: 214252 Param	- AH-6 2'-2.5' Flag	Result	Units	RL	
Chloride	8	<200	mg/Kg	4.00	
Sample: 214253 Param Chloride DRO	- AH-7 0-1' Flag	Result <200 <50.0	Units mg/Kg mg/Kg	RL 4.00 50.0	
Sample: 214254 Param Chloride	- <b>AH-7 1'-1.5'</b> Flag	Result <200	Units mg/Kg	RL 4.00	
	- AH-7 2'-2.5'		<u></u>		
Param	Flag	Result	Units	RL	

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5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Midland Texas 79703 Ft. Worth, Texas 76132 E-Mail: lab@traceanalysis.com

432 • 689 • 6301 817 • 201 • 5260

FAX 432+689+6313

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

Midland: T104704392-08-TX

# Analytical and Quality Control Report

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

Report Date: November 13, 2009

Work Order: 9110619 

Project Location: Eddy Co., NM Project Name: COG/Skelly 606 TB Project Number: 114-6400325

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
214235	AH-1 0-1'	soil	2009-11-03	00:00	2009-11-06
214236	AH-1 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214237	AH-1 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214238	AH-2 0-1'	soil	2009-11-03	00:00	2009-11-06
214239	AH-2 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214240	AH-2 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214241	AH-3 0-1'	soil	2009-11-03	00:00	2009-11-06
214242	AH-3 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214243	AH-3 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214244	AH-4 0-1'	soil	2009-11-03	00:00	2009-11-06

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
214245	AH-4 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214246	AH-4 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214247	AH-5 0-1'	soil	2009-11-03	00:00	2009-11-06
214248	AH-5 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214249	AH-5 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214250	AH-6 0-1'	soil	2009-11-03	00:00	2009-11-06
214251	AH-6 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214252	AH-6 2'-2.5'	soil	2009-11-03	00:00	2009-11-06
214253	AH-7 0-1'	soil	2009-11-03	00:00	2009-11-06
214254	AH-7 1'-1.5'	soil	2009-11-03	00:00	2009-11-06
214255	AH-7 2'-2.5'	soil	2009-11-03	00:00	2009-11-06

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

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Slan.

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

#### Standard Flags

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

# Case Narrative

Samples for project COG/Skelly 606 TB were received by TraceAnalysis, Inc. on 2009-11-06 and assigned to work order 9110619. Samples for work order 9110619 were received intact at a temperature of 6.5 deg. 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	55750	2009-11-12 at 12:00	65272	2009-11-12 at 11:24
Chloride (Titration)	SM 4500-Cl B	55644	2009-11-09 at 08:35	65134	2009-11-09 at 14:42
Chloride (Titration)	SM 4500-Cl B	55645	2009-11-09 at 08:37	65135	2009-11-09 at 14:43
Chloride (Titration)	SM 4500-Cl B	55646	2009-11-09 at 08:38	65136	2009-11-09 at 14:44
TPH DRO - NEW	Mod. 8015B	55625	2009-11-06 at 15:23	65113	2009-11-06 at 15:23
TPH GRO	S 8015B	55750	2009-11-12 at 12:00	65270	2009-11-12 at 11:51

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 9110619 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.

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Report Date: November 13, 2009 114-6400325

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# **Analytical Report**

Sample: 214235 - AH-1 0-1'

Laboratory: Midland Analysis: BTEX QC Batch: 65272 Prep Batch: 55750		Analytical Date Analy Sample Pre	zed:	S 8021B 2009-11-12 2009-11-12		Prep Me Analyzec Preparec	d By: AG
		RI					
Parameter Flag		Result	5	Units	Ι	Dilution	$\operatorname{RL}$
Benzene		< 0.0100	)	mg/Kg		1	0.0100
Toluene		< 0.0100	)	mg/Kg		1	0.0100
Ethylbenzene		< 0.0100	)	mg/Kg		1	0.0100
Xylene	<u></u>	< 0.0100	)	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.18	mg/Kg	1	2.00	109	64.4 - 111.2
4-Bromofluorobenzene (4-BFB)		1.40	mg/Kg	1	2.00	70	43.1 - 128.4

#### Sample: 214235 - AH-1 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 65134	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-11-09 2009-11-09	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		2620	mg/Kg	100	4.00

#### Sample: 214235 - AH-1 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	TPH DRO - NEW 65113	Analytical Me Date Analyze Sample Prepa	d: 2009-11-06	Prep Method: Analyzed By: Prepared By:	kg
_		RL			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
DRO		<50.0	mg/Kg	1	50.0

Report Date: November 13, 2009 114-6400325			Work Order: 9110619 COG/Skelly 606 TB				Page Number: 5 of 25 Eddy Co., NM	
Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery	Recovery Limits	
	123	mg/Kg	1		100	123	48.5 - 146	
35 - AH-1 0-1	,							
Iidland		-						
PH GRO		Analytical	Method:	S 8015B		Prep Me	thod: S 5035	
5270 <sup>-</sup>		Date Ana	lyzed:	2009-11-12	;	Analyze	d By: AG	
5750		Sample P	reparation:	2009-11-12	;	Prepared	d By: AG	
		RL						
Flag		Result		Units		Dilution	RL	
		<1.00		mg/Kg		1	1.00	
		•			Cnilco	Deveent	Recovery	
	Flag	Result	Units	Dilution	-		Limits	
e (TFT)	6			1	2.00	110	65.3 - 109.9	
enzene (4-BFB)	)	1.40	mg/Kg	1	2.00	70	61.7 - 119.9	
	Flag <b>35 - AH-1 0-1</b> Iidland PH GRO 5270 5750 Flag (TFT)	Flag         Result           123           35 - AH-1 0-1'           Iidland           PH GRO           5270           5750           Flag           Flag           Flag           Flag           Flag	Flag     Result     Units       123     mg/Kg       35 - AH-1 0-1'       Iidland       PH GRO     Analytica       5270     Date Ana       5750     Sample P:       Flag     RL       Flag     Result        <1.00	$\begin{tabular}{ c c c c c } \hline COG/Ske \\ \hline Flag & Result & Units & Dilution \\ \hline 123 & mg/Kg & 1 \\ \hline 123 & mg/Kg & 1 \\ \hline 35 - AH-1 0-1' \\ \hline 35 - AH-1 0-1' \\ \hline Iidland & \\ PH GRO & Analytical Method: \\ 5270 & Date Analyzed: \\ 5750 & Date Analyzed: \\ 5750 & Sample Preparation: \\ \hline RL & \\ \hline Flag & Result & \\ \hline & $-$1.00 & \\ \hline \hline & $-$1.00 & \\ \hline & $-$1.00 & \hline \hline & $-$1.00 & \\ \hline & $-$1.00 & \hline \hline & $-$1.00 & \hline \hline & $-$1$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	COG/Skelly 606 TB         Flag       Result       Units       Dilution       Amount         123       mg/Kg       1       100         35 - AH-1 0-1'         35 - AH-1 0-1'         Iidland         'PH GRO       Analytical Method:       S 8015B         5270       Date Analyzed:       2009-11-12         5750       Sample Preparation:       2009-11-12         Flag       Result       Units         Flag       Result         Visite Units         Spike         Flag       Result       Units         Spike         Flag       Result       Units         Spike         Flag       Result       Units       Amount         c (TFT)       2.19       mg/Kg       1       2.00	$\begin{tabular}{ c c c c c c c } \hline COG/Skelly 606 TB \\ \hline COG/Skelly 606 TB & \hline COG/Skelly 600 & \hline COG/$	

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 65134	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-11-09 2009-11-09	Prep Method: Analyzed By: Prepared By:	AR
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

#### Sample: 214237 - AH-1 2'-2.5'

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Chloride		<200	mg/Kg	50	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	55644	Sample Prep	paration: 2009-11-09	Prepared By:	AR
QC Batch:	65134	. Date Analyz	ed: 2009-11-09	Analyzed By:	$\mathbf{AR}$
Analysis:	Chloride (Titration)	Analytical M	fethod: SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

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Report Date 114-6400325	e: November 13, 2009	Work Order: COG/Skelly	Page Number: 6 of 2 Eddy Co., NI		
Sample: 21	4238 - AH-2 0-1'				
Laboratory:	Midland	x			
Analysis:	alysis: Chloride (Titration) Analytical M		SM 4500-Cl B	Prep Method:	N/A
QC Batch:	65134	Date Analyzed:	2009-11-09	Analyzed By:	AR
Prep Batch:	55644	Sample Preparation:	2009-11-09	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride	······································	469	mg/Kg	50	4.00

# Sample: 214238 - AH-2 0-1'

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 65113 55625	NEW	Date An	alyzed: 2	Mod. 8015B 2009-11-06 2009-11-06	Analyz	fethod: N/A ed By: kg ed By: kg
Parameter		lag	RL Result	-	Jnits	Dilution	RL
DRO			336	mg	g/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		136	mg/Kg	1	100	136	48.5 - 146

# Sample: 214238 - AH-2 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 65270 55750		Date Ana	l Method: lyzed: reparation:	S 8015B 2009-11-12 2009-11-12		Prep Me Analyzee Preparec	d By: AG
			$\mathbf{RL}$					
Parameter	Flag		Result		Units		Dilution	$\operatorname{RL}$
GRO			19.4		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		2.07	mg/Kg	1	2.00	104	65.3 - 109.9
4-Bromofluor	robenzene (4-BFB)		1.58	mg/Kg	1	2.00	79	61.7 - 119.9

Report Date: November 13, 2009	Work Order: 9110619	Page Number: 7 of 25
114-6400325	COG/Skelly 606 TB	Eddy Co., NM
Sample: 214239 - AH-2 1'-1.5'		1111

#### Sample: 2 AH-2 1'-1.5 39

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 65134 55644	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-11-09 2009-11-09	Prep Method: Analyzed By: Prepared By:	ÁR
		$\operatorname{RL}$			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	RL
Chloride		237	mg/Kg	50	4.00

# Sample: 214240 - AH-2 2'-2.5'

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 65134	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-11-09 : 2009-11-09	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	$\mathbf{Flag}$	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

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# Sample: 214241 - AH-3 0-1'

Laboratory: Midland							
Analysis: BTEX		Analytical	Method:	S 8021B		Prep Me	ethod: S 5035
QC Batch: 65272		Date Anal	yzed:	2009-11-12		Analyze	d By: AG
Prep Batch: 55750		Sample Pr	eparation:	2009-11-12		Prepare	d By: AG
		RI	بر				
Parameter Flag		Resul	t	Units	I	Dilution	$\mathbf{RL}$
Benzene		< 0.010	D	mg/Kg		1	0.0100
Toluene		< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene		< 0.010	0	mg/Kg		1	0.0100
Xylene		< 0.010	00	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.19	mg/Kg	1	2.00	110	64.4 - 111.2
4-Bromofluorobenzene (4-BFB)		1.42	mg/Kg	1	2.00	71	43.1 - 128.4

Report Date 114-6400325 	: November 13, 2009	Work Order: 9 COG/Skelly	Page Number: 8 of Eddy Co., N		
Sample: 21	4241 - AH-3 0-1'				
Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	65134	Date Analyzed:	2009-11-09	Analyzed By:	AR
Prep Batch:	55644	Sample Preparation:	2009-11-09	Prepared By:	AR
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	$\operatorname{RL}$
Chloride		3270	mg/Kg	100	4.00

# Sample: 214241 - AH-3 0-1'

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Laboratory:	Midland						
Analysis:	TPH DRO - I	NEW	Analytic	al Method: M	lod. 8015B	Prep N	Iethod: N/A
QC Batch:	65113		Date Ar	alyzed: 20	009-11-06	Analyz	ed By: kg
Prep Batch:	55625		Sample	Preparation: 20	009-11-06	Prepar	ed By: kg
			$\mathbf{RL}$				
Parameter	F	lag	$\mathbf{Result}$	Ui	nits	Dilution	$\mathbf{RL}$
DRO			<50.0	mg/	'Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		124	mg/Kg	1	100	124	48.5 - 146
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# Sample: 214241 - AH-3 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 65270 55750		Date Ana	l Method: lyzed: reparation:	S 8015B 2009-11-12 2009-11-12		Prep Me Analyzec Preparec	d By: AG
			$\mathbf{RL}$					
Parameter	Flag		Result		Units		Dilution	$\mathbf{RL}$
GRO	······································		<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ma (TFT)	1 lag	2.14		1	2.00		65.3 - 109.9
	· · ·			mg/Kg	1		107	
4-Bromofluor	obenzene (4-BFB)		1.39	mg/Kg	1	2.00	70	61.7 - 119.9

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Report Date 114-6400325	e: November 13, 2009	Work Order: 9 COG/Skelly 6	Page Number: 9 of 2 Eddy Co., NN		
Sample: 21	4242 - AH-3 1'-1.5'				
Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 65134	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-11-09 2009-11-09	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		366	mg/Kg	50	4.00

# Sample: 214243 - AH-3 2'-2.5'

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 65134 55644	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2009-11-09 : 2009-11-09	Prep Method: Analyzed By: Prepared By:	$\mathbf{AR}$
,		RL			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\operatorname{RL}$
Chloride		<200	mg/Kg	50	4.00

# Sample: 214244 - AH-4 0-1'

4-Bromofluorobenze	ne (4-BFB)		1.39	mg/Kg	1	2.00	70	43.1	- 128.4
Trifluorotoluene (TF			2.17	mg/Kg	1	2.00	108	64.4	- 111.2
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	L	imits
						Spike	Percent	Re	covery
Xylene			< 0.0100	)	mg/Kg		1		0.0100
Ethylbenzene			< 0.0100	)	mg/Kg		1		0.0100
Toluene			< 0.0100	)	mg/Kg		1		0.0100
Benzene			< 0.0100	)	mg/Kg		1		0.0100
Parameter	Flag		Resul	t	Units	I	Dilution		RL
			RI						
Prep Batch: 55750			Sample Pre	eparation:	2009-11-12		Preparec	l By:	$\mathbf{AG}$
QC Batch: 65272	•		Date Analy	yzed:	2009-11-12		Analyzed	l By:	$\mathbf{AG}$
Analysis: BTEX			Analytical	Method:	S 8021B		Prep Me	thod:	S 5035
Laboratory: Midla	nð								

Report Date: November 13, 2009	Work Order: 9110619	Page Number: 10 of 25
114-6400325	COG/Skelly 606 TB	Eddy Co., NM

# Sample: 214244 - AH-4 0-1'

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Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	65134	Date Analyzed:	2009-11-09	Analyzed By:	AR
Prep Batch:	55644	Sample Preparation:	2009-11-09	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		850	mg/Kg	50	4.00

#### Sample: 214244 - AH-4 0-1'

tory: Midland is: TPH DRO - NEW tch: 65113 atch: 55625		Date An	Date Analyzed: 2		Analyz	Method: N/A zed By: kg red By: kg
		$\operatorname{RL}$				
$\mathbf{F}_{i}^{t}$	lag	Result		Units	Dilution	RL
		<50.0	n	ng/Kg	1	50.0
				Spike	Percent	Recovery
Flag	Result	Units	Dilution	Amount	Recovery	Limits
	123	mg/Kg	1	100	123	48.5 - 146
-	TPH DRO - N 65113 55625 F	TPH DRO - NEW 65113 55625 Flag Flag Result	TPH DRO - NEW     Analytic       65113     Date An       55625     Sample       RL     Result       Flag     Result	TPH DRO - NEW       Analytical Method:         65113       Date Analyzed:         55625       Sample Preparation:         RL       Result         Flag       Result         Flag       Result         Flag       Result	TPH DRO - NEWAnalytical Method:Mod. 8015B65113Date Analyzed:2009-11-0655625Sample Preparation:2009-11-06RLFlagResultUnits< 50.0	TPH DRO - NEWAnalytical Method:Mod. 8015BPrep M65113Date Analyzed:2009-11-06Analyz55625Sample Preparation:2009-11-06PreparationRLFlagResultUnitsDilutionSpikePercentSpikePercentFlagResultUnitsDilutionSpikePercentFlagResultUnitsDilutionFlagResultUnitsDilutionAmount

#### Sample: 214244 - AH-4 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 65270 55750		Date Ana	l Method: lyzed: reparation:	S 8015B 2009-11-12 2009-11-12		Prep Me Analyze Preparec	d By: AG
			$\operatorname{RL}$					
Parameter	Flag		Result		Units		Dilution	$\mathbf{RL}$
GRO			1.41		mg/Kg	······································	1	1.00
Course and a		Eler	Result	Units	Dilution	Spike	Percent	Recovery
Surrogate		Flag			Dilution	Amount	Recovery	Limits
Trifluorotolue	· ,		2.15	mg/Kg	1	2.00	108	65.3 - 109.9
4-Bromofluor	obenzene (4-BFB)		1.35	mg/Kg	1	2.00	68	61.7 - 119.9

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# Sample: 214245 - AH-4 1'-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	65135	Date Analyzed:	2009-11-09	Analyzed By:	$\mathbf{AR}$
Prep Batch:	55645	Sample Preparation:	2009-11-09	Prepared By:	$\mathbf{AR}$
		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

# Sample: 214246 - AH-4 2'-2.5'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 65135 55645	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-11-09 2009-11-09	Prep Method: Analyzed By: Prepared By:	AR
De see se st se	Flan	RL	17	Dilution	ы
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

# Sample: 214247 - AH-5 0-1'

Laboratory:MidlandAnalysis:BTEXQC Batch:65272Prep Batch:55750		Analytical Date Anal Sample Pr	yzed:	S 8021B 2009-11-12 2009-11-12		Prep Me Analyze Preparec	d By: AG
		RI	-				
Parameter Flag		Resul	t	Units	I	Dilution	$\operatorname{RL}$
Benzene		< 0.010	0	mg/Kg		1	0.0100
Toluene		< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene		< 0.010	0	mg/Kg		1	0.0100
Xylene		< 0.010	00	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.16	mg/Kg	1	2.00	108	64.4 - 111.2
4-Bromofluorobenzene (4-BFB)		1.39	mg/Kg	1	2.00	70	43.1 - 128.4

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#### Sample: 214247 - AH-5 0-1'

.

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	65135	Date Analyzed:	2009-11-09	Analyzed By:	AR
Prep Batch:	55645	Sample Preparation:	2009-11-09	Prepared By:	$\mathbf{AR}$
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<b>6100</b> 1	ng/Kg	100	4.00

#### Sample: 214247 - AH-5 0-1'

QC Batch: Prep Batch:	$65113 \\ 55625$		-	v	009-11-06 009-11-06	v	zed By: kg red By: kg
Parameter	F	lag	$\operatorname{RL}$ Result	U	nits	Dilution	$\operatorname{RL}$
DRO			<50.0	mg/	′Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	·····	123	mg/Kg	-1	100	123	48.5 - 146

#### Sample: 214247 - AH-5 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 65270 55750		Analytical Date Anal Sample Pi		S 8015B 2009-11-12 2009-11-12		Prep Me Analyze Prepared	d By: AG
			RL					
Parameter	Flag		Result		Units		Dilution	$\mathbf{RL}$
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		2.15	mg/Kg	1	2.00	108	65.3 - 109.9
4-Bromofluor	obenzene (4-BFB)		1.37	mg/Kg	1	2.00	68	61.7 - 119.9

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Report Date: November 13, 2009 114-6400325				Page Number: 13 of 25 Eddy Co., NM		
Sample: 21	4248 - AH-5 1'-1.5'					
Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 65135 55645	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-11-09 2009-11-09	Prep Method: Analyzed By: Prepared By:	N/A AR AR	
_		RL	<b>TT</b> 1.		DI	
Parameter	Flag	Result	Units	Dilution	RL	
Chloride		<200	mg/Kg	50	4.00	
Sample: 21	4249 - AH-5 2'-2.5'					
Laboratory: Analysis: QC Batch:	Midland Chloride (Titration) 65135	Analytical Method: Date Analyzed:	SM 4500-Cl B 2009-11-09	Prep Method: Analyzed By:	N/A AR	
Prep Batch:	55645	Sample Preparation:	2009-11-09	Prepared By:	AR	
	ות	RL	<b>TT T</b> .		ъī	
	Flag	Result	Units	Dilution	RL	
Chloride	Flag 4250 - AH-6 0-1'	Result	Units mg/Kg	Dilution 50	RL 4.00	
Chloride Sample: 21 Laboratory: Analysis: QC Batch:	., .	Result <200 n Analytical Method: Date Analyzed: Sample Preparation:				
Chloride Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	<b>4250 - AH-6 0-1'</b> Midland Chloride (Titration) 65135 55645	Result <200 r Analytical Method: Date Analyzed: Sample Preparation: RL	mg/Kg SM 4500-Cl B 2009-11-09 2009-11-09	50 Prep Method: Analyzed By: Prepared By:	4.00 N/A AR AR	
Chloride Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	<b>4250 - AH-6 0-1'</b> Midland Chloride (Titration) 65135	Result <200 r Analytical Method: Date Analyzed: Sample Preparation: RL Result	mg/Kg SM 4500-Cl B 2009-11-09 2009-11-09 Units	50 Prep Method: Analyzed By:	4.00 N/A AR AR RL	
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 21 Laboratory: Analysis: QC Batch:	4250 - AH-6 0-1' Midland Chloride (Titration) 65135 55645 Flag 4250 - AH-6 0-1' Midland TPH DRO - NEW 65113	Result <200 r Analytical Method: Date Analyzed: Sample Preparation: RL Result 261 r Analytical Method: Date Analyzed:	mg/Kg SM 4500-Cl B 2009-11-09 2009-11-09 Units mg/Kg Mod. 8015B 2009-11-06	50 Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By:	4.00 N/A AR AR RL 4.00	
Chloride Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	4250 - AH-6 0-1' Midland Chloride (Titration) 65135 55645 Flag 4250 - AH-6 0-1' Midland TPH DRO - NEW 65113 55625	Result <200 n Analytical Method: Date Analyzed: Sample Preparation: RL Result 261 n Analytical Method: Date Analyzed: Sample Preparation: RL	mg/Kg SM 4500-Cl B 2009-11-09 2009-11-09 Units mg/Kg Mod. 8015B	50 Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method:	4.00 N/A AR AR RL 4.00 N/A kg kg	
Chloride Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 21 Laboratory: Analysis: QC Batch:	4250 - AH-6 0-1' Midland Chloride (Titration) 65135 55645 Flag 4250 - AH-6 0-1' Midland TPH DRO - NEW 65113	Result <200 r Analytical Method: Date Analyzed: Sample Preparation: RL Result 261 r Analytical Method: Date Analyzed: Sample Preparation: RL Result	mg/Kg SM 4500-Cl B 2009-11-09 2009-11-09 Units mg/Kg Mod. 8015B 2009-11-06	50 Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By:	4.00 N/A AR AR RL 4.00	

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Surrogate	Flag	Result	Units	Dilutio	on	Spike Amount	Percent Recovery	L	covery vimits
n-Tricosane	,	123	mg/Kg	1		100	123	48.	5 - 146
Sample: 21	4250 - AH-6	0-1'							
Laboratory:	Midland								
Analysis:	TPH GRO		Analytica	Method:	S 8015B		Prep Me	ethod:	S 5035
QC Batch:	65270		Date Ana		2009-11-12		Analyze		AG
Prep Batch:	55750			•	2009-11-12		Prepare		AG
			$\mathbf{RL}$						
Parameter	F	lag	Result		Units		Dilution		RL
GRO			<1.00	·	mg/Kg		1		1.00
_						Spike	Percent		overy
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery		mits
Trifluorotolu	ene (TFT)		2.18	mg/Kg	1	2.00	109	65.3	- 109.9
4-Bromofluor	robenzene (4-BI		1.38	mg/Kg	1	2.00	69		
4-Bromofluor Sample: 21 Laboratory: Analysis: QC Batch:	4251 - AH-6 Midland Chloride (Titr 65135	1'-1.5'	1.38 Analy Date	mg/Kg tical Method: Analyzed:	SM 450 2009-1	2.00 20-Cl B 1-09	69 Prep I Analy:	61.7 Method: zed By:	- 119.9 N/A AR
4-Bromofluor Sample: 21 Laboratory: Analysis: QC Batch:	4251 - AH-6 Midland Chloride (Titr	1'-1.5'	1.38 Analy Date Sampl	mg/Kg tical Method:	SM 450 2009-1	2.00 20-Cl B 1-09	69 Prep I Analy:	61.7 Method:	<u>- 119.9</u> N/A
4-Bromofluor Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	<b>4251 - AH-6</b> Midland Chloride (Titr 65135 55645	1'-1.5' ration)	1.38 Analy Date J Sampl RL	mg/Kg tical Method: Analyzed:	: SM 450 2009-1 a: 2009-1	2.00 20-Cl B 1-09	69 Prep I Analy Prepar	61.7 Method: zed By:	- 119.9 N/A AR AR
4-Bromofluor	<b>4251 - AH-6</b> Midland Chloride (Titr 65135 55645	1'-1.5'	1.38 Analy Date Sampl	mg/Kg tical Method: Analyzed:	SM 450 2009-1	2.00 20-Cl B 1-09	69 Prep I Analy:	61.7 Method: zed By:	- 119.9 N/A AR AR RL
4-Bromofluor Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride	<b>4251 - AH-6</b> Midland Chloride (Titr 65135 55645	1'-1.5' ration) lag 2'-2.5'	1.38 Analy Date Sampl RL Result <200 Analy Date	mg/Kg tical Method: Analyzed:	SM 456 2009-1 n: 2009-1 Units mg/Kg SM 456 2009-1	2.00 00-Cl B 1-09 1-09	69 Prep I Analy: Prepar Dilution 50 Prep I Analy:	61.7 Method: zed By:	- 119.9 N/A AR AR RL 4.00
4-Bromofluor Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 21 Laboratory: Analysis: QC Batch:	4251 - AH-6 3 Midland Chloride (Titr 65135 55645 4252 - AH-6 3 Midland Chloride (Titr 65135 55645	1'-1.5' ration) lag 2'-2.5'	1.38 Analy Date Sampl RL Result <200 Analy Date	mg/Kg tical Method: Analyzed: e Preparation tical Method: Analyzed:	SM 456 2009-1 n: 2009-1 Units mg/Kg SM 456 2009-1	2.00 00-Cl B 1-09 1-09	69 Prep I Analy: Prepar Dilution 50 Prep I Analy:	61.7 Method: zed By: red By: Method: zed By:	- 119.9 N/A AR AR RL 4.00

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Sample: 214253 - AH-7 0-1'		

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Laboratory:	Midland	
Analysis:	Chloride (Titration)	Analytical Method:
QC Batch:	65135	Date Analyzed:

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	65135	Date Analyzed:	2009-11-09	Analyzed By:	AR
Prep Batch:	55645	Sample Preparation	n: 2009-11-09	Prepared By:	$\mathbf{AR}$
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

# Sample: 214253 - AH-7 0-1'

Laboratory:	Midland						
Analysis:	TPH DRO - N	<b>NEW</b>	Analytic	al Method: I	Mod. 8015B	Prep M	fethod: N/A
QC Batch:	65113		Date An	alyzed: 2	2009-11-06	Analyz	ed By: kg
Prep Batch:	55625		Sample	Preparation: 2	2009-11-06	Prepar	ed By: kg
			$\mathbf{RL}$				
Parameter	Flag		Result	U	Inits	Dilution	$\operatorname{RL}$
DRO			<50.0	mg	/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		122	mg/Kg	1	100	122	48.5 - 146

#### Sample: 214253 - AH-7 0-1'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 65270 55750		Analytica Date Ana Sample Pi		S 8015B 2009-11-12 2009-11-12		Prep Mee Analyzed Prepared	By: AG
			$\mathbf{RL}$	,		•		
Parameter	Flag		Result		Units		Dilution	$\mathbf{RL}$
GRO			<1.00		mg/Kg	······································	1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)	1	2.19	mg/Kg	1	2.00	110	65.3 - 109.9
4-Bromofluorobenzene (4-BFB)			1.39	mg/Kg	1	2.00	70	61.7 - 119.9

<sup>1</sup>High surrogate recovery. Sample non-detect, result bias high.

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Sample: 21	4254 - AH-	7 1'-1.5'					
Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (T 65135 55645	litration)	Analytical Method: Date Analyzed: Sample Preparatior	2009-11-09	Prep Meth Analyzed I Prepared I	By: AR	
-			RL		-	-	
Parameter		Flag	Result	Units	Dilution	RI	
Chloride			<200 mg/Kg		50		
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	4255 - AH- Midland Chloride (T 65136 55646		Analytical Method: Date Analyzed: Sample Preparatior	2009-11-09	Prep Meth Analyzed I Prepared I	By: AR	
p				2000 12 00		-j0	
<b>D</b>			RL	<b>TT</b> 1.		RI	
Parameter Chloride		Flag	ResultUnits<200		Dilution 50		
<b>Method Bl</b> QC Batch: Prep Batch:	ank (1) QC Batch: 65113 65113 55625		Date Analyzed: 2009-11-06 QC Preparation: 2009-11-06		Analyzed By: Prepared By:		
			MDL				
	arameter Flag		Result		Units		
Parameter		riag	recourt				
		Tag	<5.86	-	mg/Kg	5(	
DRO	Flag	Result		Spike n Amount	mg/Kg Percent Recovery		
Parameter DRO Surrogate n-Tricosane	Flag		<5.86		Percent	Recovery Limits	
DRO Surrogate n-Tricosane Method Bla QC Batch:		Result	<5.86 Units Dilutio mg/Kg 1 Date Analyzed: 2009	n Amount	Percent Recovery	Recovery Limits 48.5 - 14 By: AR	
DRO Surrogate	ank (1) 65134	Result 117	<5.86 Units Dilutio mg/Kg 1 Date Analyzed: 2009 QC Preparation: 2009	n Amount 100	Percent Recovery 117 Analyzed	Recovery Limits 48.5 - 14 By: AR	
DRO Surrogate n-Tricosane Method Bla QC Batch:	ank (1) 65134	Result 117	<5.86 Units Dilutio mg/Kg 1 Date Analyzed: 2009	n Amount 100	Percent Recovery 117 Analyzed	48.5 - 14 By: AR	

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Report Date: Novemb 114-6400325	er 13, 2009		ork Order: OG/Skelly			Page Nur E	nber: 17 Eddy Co	
Method Blank (1)	QC Batch: 65135							
QC Batch: 65135 Prep Batch: 55645		Date Analyz QC Prepara		09-11-09 09-11-09		Analyz Prepar	zed By: red By:	AR AR
_			MDL					
Parameter	Flag	•	Result		Units			RL
Chloride			<2.18		mg/Kg			4
Method Blank (1)	QC Batch: 65136							
QC Batch: 65136		Date Analyz	zed: 200	09-11-09		Analvz	ed By:	AR
Prep Batch: 55646		QC Prepara		09-11-09		Prepar		AR
Parameter	Flag		MDL Result		Units			$\mathbf{RL}$
Chloride	Flag		<2.18		mg/Kg			$\frac{\pi L}{4}$
Method Blank (1)	QC Batch: 65270	Data Analys		0.11.10		A no lur	ad Dee	
Method Blank (1) QC Batch: 65270 Prep Batch: 55750	QC Batch: 65270	Date Analyz QC Prepara		)9-11-12 )9-11-12		Analyz Prepar	ed By: ed By:	AG AG
QC Batch: 65270 Prep Batch: 55750			tion: 200. MDL		Unite			AG
QC Batch: 65270	QC Batch: 65270 Flag		tion: 200		Units mg/Kg	Prepar		AG
QC Batch: 65270 Prep Batch: 55750 Parameter GRO	Flag	QC Prepara	tion: 200 MDL Result <0.396	09-11-12	mg/Kg Spike	Prepar Percent	ed By:	AG RL 1 overy
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate	Flag	QC Prepara	tion: 200 MDL Result <0.396 Units	D9-11-12 Dilution	mg/Kg Spike Amount	Prepar Percent Recovery	ed By: Reco	AG RL 1 overy nits
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT)	Flag Flag	QC Prepara Result 2.24	tion: 200 MDL Result <0.396 Units mg/Kg	09-11-12	mg/Kg Spike	Prepar Percent	Reco Reco Lir 66.2	AG RL 1 overy nits - 125
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene	Flag Flag (4-BFB)	QC Prepara Result 2.24	tion: 200 MDL Result <0.396 Units	09-11-12 Dilution 1	mg/Kg Spike Amount 2.00	Prepar Percent Recovery 112	Reco Reco Lir 66.2	AG RL 1 overy nits - 125
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1)	Flag Flag	QC Prepara Result 2.24 1.39	tion: 200 MDL Result <0.396 Units mg/Kg mg/Kg	09-11-12 Dilution 1 1	mg/Kg Spike Amount 2.00	Prepar Percent Recovery 112 70	ed By: Recc Lir 66.2 62 -	AG RL 1 overy nits - 125
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 65272	Flag Flag (4-BFB)	QC Prepara Result 2.24 1.39 Date Analyz	tion: 200 MDL Result <0.396 Units mg/Kg mg/Kg mg/Kg	09-11-12 Dilution 1 1 09-11-12	mg/Kg Spike Amount 2.00	Prepar Percent Recovery 112 70 Analyz	ed By: Recc Lir 66.2 62 -	AG RL 1 overy nits - 125 120.5
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1)	Flag Flag (4-BFB)	QC Prepara Result 2.24 1.39	tion: 200 MDL Result <0.396 Units mg/Kg mg/Kg mg/Kg	09-11-12 Dilution 1 1	mg/Kg Spike Amount 2.00	Prepar Percent Recovery 112 70	ed By: Recc Lir 66.2 62 -	AG RL 1 overy nits - 125 120.5
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 65272 Prep Batch: 55750	Flag Flag (4-BFB) QC Batch: 65272	QC Prepara Result 2.24 1.39 Date Analyz	tion: 200 MDL Result <0.396 Units mg/Kg mg/Kg mg/Kg zed: 200 tion: 200 MDI	D9-11-12 Dilution 1 1 09-11-12 09-11-12	mg/Kg Amount 2.00 2.00	Prepar Percent Recovery 112 70 Analyz Prepar	ed By: Recc Lir 66.2 62 -	AG RL 1 overy nits - 125 120.5 AG AG
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 65272 Prep Batch: 55750 Parameter	Flag Flag (4-BFB)	QC Prepara Result 2.24 1.39 Date Analyz	tion: 200 MDL Result <0.396 Units mg/Kg mg/Kg mg/Kg zed: 200 tion: 200 MDI Resul	D9-11-12 Dilution 1 1 09-11-12 09-11-12 L t	mg/Kg Amount 2.00 2.00 Units	Prepar Percent Recovery 112 70 Analyz Prepar	ed By: Recc Lir 66.2 62 -	AG RL 1 overy nits - 125 120.5 120.5 AG AG
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 65272 Prep Batch: 55750 Parameter Benzene	Flag Flag (4-BFB) QC Batch: 65272	QC Prepara Result 2.24 1.39 Date Analyz	tion: 200 MDL Result <0.396 Units mg/Kg mg/Kg Mg/Kg zed: 200 tion: 200 MDI Resul <0.00410	D9-11-12 Dilution 1 1 09-11-12 D9-11-12 L t 0	mg/Kg Spike Amount 2.00 2.00 Units mg/Kg	Prepar Percent Recovery 112 70 Analyz Prepar	ed By: Recc Lir 66.2 62 -	AG RL 1 overy nits - 125 120.5 120.5 AG AG AG RL 0.01
QC Batch: 65270 Prep Batch: 55750 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene Method Blank (1) QC Batch: 65272 Prep Batch: 55750 Parameter	Flag Flag (4-BFB) QC Batch: 65272	QC Prepara Result 2.24 1.39 Date Analyz	tion: 200 MDL Result <0.396 Units mg/Kg mg/Kg mg/Kg zed: 200 tion: 200 MDI Resul	D9-11-12 Dilution 1 1 09-11-12 09-11-12 L t 0 0	mg/Kg Amount 2.00 2.00 Units	Prepar Percent Recovery 112 70 Analyz Prepar	ed By: Recc Lir 66.2 62 -	AG RL 1 overy nits - 125 120.5 120.5 AG AG

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114-6400325	er 13, 2009				rder: 911( Skelly 606			Page N	umber: Eddy (	
Surrogate		Flag	Result	Units		ition A	Spike mount	Percent Recovery	L	covery mits
Trifluorotoluene (TFT			2.25	mg/K		1	2.00	112		- 122.7
4-Bromofluorobenzene	(4-DFD)		1.38	mg/K	<u> </u>	1	2.00	69	43.9	- 121.9
Laboratory Control	Spike (LCS	8-1)								
QC Batch: 65113 Prep Batch: 55625			Date An QC Prep	•	2009-11 2009-11				alyzed B pared B	
-		LCS			<b>D</b> .1	Spike	Matrix			Rec.
Param DRO		Resu 234		nits		Amount 250	Result <5.86	Rec. 94		imit - 133.4
				g/Kg				·····	01.4	- 100.4
Percent recovery is bas	sed on the sp	ike resuit.	RFD IS D	ased on	the spike a	and spike d	uplicate re	suit.		
		LCSD			Spike	Matrix		Rec.		RPL
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limi
DRO		215	mg/Kg	1	250	< 5.86	86 57	.4 - 133.4	8	20
Percent recovery is bas	sed on the spi	ike result.	RPD is b	ased on	the spike a	and spike d	uplicate rea	sult.		
	LCS	LCSD				Spike	LCS	LCSD		Rec.
Surrogate	Result	Result	Uni	ts	Dil.	Amount	Rec.	Rec.		Limit
	106	106	mg/l	Ka	1	100	106	106	48	5 - 146
n-Tricosane		100	ing/ i	itg	<b>L</b>					
Laboratory Control QC Batch: 65134			Date Ana QC Prepa	alyzed:	2009-11- 2009-11-			Anal	yzed By ared By	
Prep Batch: 55644		5-1) LC	Date Ana QC Prepa S	alyzed: aration:	2009-11- 2009-11-	09 Spike	Matı	Anal Prep	yzed By ared By	AR Rec.
Laboratory Control QC Batch: 65134 Prep Batch: 55644 Param_		5-1) LC Rest	Date Ana QC Prepa S ult I	alyzed: aration: Units	2009-11- 2009-11- Dil.	09 Spike Amount	Matı z Resu	Anal Prep rix ılt Rec	yzed By ared By	AR Rec. Limit
Laboratory Control QC Batch: 65134	Spike (LCS	5-1) LC Rest 10	Date Ana QC Prepa S ult U	alyzed: aration: Units ng/Kg	2009-11- 2009-11- Dil. 1	09 Spike Amount 100	Mati z Resi <2.	Anal Prep rix ilt Rec 18 100	yzed By ared By	AR Rec. Limit
Laboratory Control QC Batch: 65134 Prep Batch: 55644 Param Chloride Percent recovery is bas	Spike (LCS	5-1) LC Rest 10 ike result. LCSD	Date Ana QC Prepa S alt U RPD is ba	alyzed: aration: Units ng/Kg ased on	2009-11- 2009-11- Dil. 1 the spike a Spike	09 Spike Amount 100 and spike d Matrix	Matı Rest <2. uplicate res	Anal Prep rix alt Rec 18 100 sult. Rec.	yzed By ared By c. D 8	AR Rec. Limit 5 - 115 RPD
Laboratory Control QC Batch: 65134 Prep Batch: 55644 Param Chloride Percent recovery is bas Param	Spike (LCS	5-1) LC Rest 10 ike result. LCSD Result	Date Ana QC Prepa S alt I RPD is ba Units	ulyzed: aration: Units ng/Kg ased on Dil.	2009-11- 2009-11- Dil. 1 the spike a Spike Amount	09 Spike Amount 100 and spike d Matrix Result	Matu z Resu <2. uplicate res Rec.	Anal Prep fix alt Rec 18 100 sult. Rec. Limit	yzed By ared By c. D 8 RPD	AR Rec. Limit 5 - 115 RPD Limit
Laboratory Control QC Batch: 65134 Prep Batch: 55644 Param Chloride	sed on the spi	5-1) LC Ress 10 ike result. LCSD Result 101	Date Ana QC Prepa S ult U RPD is ba Units mg/Kg	units og/Kg ased on Dil. 1	2009-11- 2009-11- Dil. 1 the spike a Spike Amount 100	09 Spike Amount 100 and spike d Matrix Result <2.18	Matz Resu <2 uplicate res Rec. 101	Anal Prep rix ilt Rec 18 100 sult. Rec. Limit 85 - 115	yzed By ared By c. D 8	AR Rec. Limit 5 - 115 RPD
Laboratory Control QC Batch: 65134 Prep Batch: 55644 Param Chloride Percent recovery is bas Param Chloride	sed on the spi	5-1) LC Ress 10 ike result. LCSD Result 101 ike result.	Date Ana QC Prepa S ult U RPD is ba Units mg/Kg	units og/Kg ased on Dil. 1	2009-11- 2009-11- Dil. 1 the spike a Spike Amount 100	09 Spike Amount 100 and spike d Matrix Result <2.18	Matz Resu <2 uplicate res Rec. 101	Anal Prep rix ilt Rec 18 100 sult. Rec. Limit 85 - 115	yzed By ared By c. D 8 RPD	AR Rec. Limit 5 - 115 RPD Limit
Laboratory Control QC Batch: 65134 Prep Batch: 55644 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas	sed on the spi	5-1) LC Ress 10 ike result. LCSD Result 101 ike result.	Date Ana QC Prepa S ult U RPD is ba Units mg/Kg	units og/Kg ased on Dil. 1 ased on	2009-11- 2009-11- Dil. 1 the spike a Spike Amount 100	09 Spike Amount 100 and spike d Matrix Result <2.18 and spike d	Matz Resu <2 uplicate res Rec. 101	Anal Prep rix ilt Rec 18 100 sult. Rec. Limit 85 - 115 sult.	yzed By ared By c. D 8 RPD	AR Rec. Limit 5 - 115 RPD Limit 20

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Report Date: November 13, 2009 114-6400325	9			Order: 9110 Skelly 606					umber: Eddy	Co., NN
Param	LC Res	sult	Units	Dil.	Spike Amount		Aatrix Result	Re		Rec. Limit
Chloride	10	)3	mg/Kg	1	100	<	< 2.18	10	3	85 - 115
Percent recovery is based on the	spike result.	RPD is	based on	the spike a	and spike d	uplicate	e result	t.		
	LCSD			Spike	Matrix			Rec.		RPD
Param	Result	Units	Dil.	Amount		Rec.		Limit	RPD	Limi
Chloride	100	mg/Kg	<u>5 1</u>	100	<2.18	100	85	5 - 115	3	20
Percent recovery is based on the	spike result.	RPD is	based on	the spike a	and spike d	uplicate	e result	t.		
Laboratory Control Spike (L	CS-1)									
QC Batch: 65136		Date A	nalyzed:	2009-11-	09			Ana	lyzed B	y: AR
Prep Batch: 55646			paration:						bared By	
	LC	ĊS			Spike	N	Aatrix			Rec.
Param	Res		Units	Dil.	Amount		Result	Re		Limit
			177	1	100	<	< 2.18	10	0 0	85 - 11
Chloride	10	)0	mg/Kg	±	100					
Chloride Percent recovery is based on the						·····		t.		
Percent recovery is based on the			based on	the spike a Spike	and spike d Matríx	uplicate	e result	Rec.		
Percent recovery is based on the Param	spike result. LCSD Result	RPD is Units	based on Dil.	the spike a Spike Amount	and spike d Matrix Result	uplicate Rec.	e result	Rec. Limit	RPD	Limi
Percent recovery is based on the Param Chloride	spike result. LCSD Result 101	RPD is Units mg/Kg	based on Dil.	the spike a Spike Amount 100	and spike d Matrix Result <2.18	uplicate Rec. 101	e result I 85	Rec. Limit - 115	RPD 1	RPD Limi 20
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270	spike result. LCSD Result 101 spike result.	RPD is Units mg/Kg RPD is Date An	based on Dil. 5 1 based on nalyzed:	the spike a Spike Amount 100 the spike a 2009-11-	and spike d Matrix Result <2.18 and spike d	uplicate Rec. 101	e result I 85	Rec. Limit - 115 t. Ana	1 lyzed By	Limi 20 y: AG
Percent recovery is based on the Param Chloride Percent recovery is based on the <b>Laboratory Control Spike (L</b> QC Batch: 65270 Prep Batch: 55750	spike result. LCSD Result 101 spike result. CS-1) LCS	RPD is Units mg/Kg RPD is Date Ar QC Pres	based on Dil. 1 based on nalyzed: paration:	the spike a Spike Amount 100 the spike a 2009-11- 2009-11-	and spike d Matrix Result <2.18 and spike d 12 12 Spike	uplicate Rec. 101 uplicate	e result 85 e result	Rec. Limit - 115 t. Ana Prep	1 lyzed By pared By	Limi 20 y: AG r: AG Rec.
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270 Prep Batch: 55750 Param	spike result. LCSD Result 101 spike result. CS-1) LCS Resu	RPD is Units mg/Kg RPD is Date An QC Pre S Ilt	based on Dil. 1 based on nalyzed: paration: Units	the spike a Spike Amount 100 the spike a 2009-11-	and spike d Matrix Result <2.18 and spike d 12 12 Spike Amount	uplicate Rec. 101 uplicate Mat Res	e result 85 e result ríx ult	Rec. Limit - 115 t. Ana. Prep Rec.	1 lyzed By pared By	Limi 20 y: AG y: AG Rec. Limit
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270	spike result. LCSD Result 101 spike result. CS-1) LCS Resu 17.	RPD is Units mg/Kg RPD is Date Ar QC Pres S ult U	based on Dil. 1 based on nalyzed: paration: Units ng/Kg	the spike a Spike Amount 100 the spike a 2009-11- 2009-11- Dil.	And spike d Matrix Result <2.18 and spike d 12 12 12 Spike Amount 20.0	Rec. 101 uplicate Mat Res <0.3	e result 85 e result rix ult 396	Rec. Limit - 115 t. Ana Prep Rec. 85	1 lyzed By pared By	Limi 20 y: AG y: AG Rec. Limit
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270 Prep Batch: 55750 Param GRO Percent recovery is based on the	spike result. LCSD Result 101 spike result. CS-1) LCS spike result. LCSD	RPD is Units mg/Kg RPD is Date Ar QC Pres S ult U D m RPD is	based on Dil. 1 based on nalyzed: paration: Units ng/Kg based on	the spike a Spike Amount 100 the spike a 2009-11- 2009-11- Dil. 1 the spike a Spike	And spike d Matrix Result <2.18 and spike d 12 12 12 Spike Amount 20.0 and spike d Matrix	Rec. 101 uplicate Mat Res <0.3 uplicate	e result 85 e result 96 e result 896 e result	Rec. Limit - 115 t. Ana. Prep Rec. 85 t. t.	1 lyzed By pared By 1 52.5	Limi 20 y: AG y: AG Rec. Limit 5 - 114.
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270 Prep Batch: 55750 Param GRO Percent recovery is based on the Param	spike result. LCSD Result 101 spike result. CS-1) LCS spike result. LCSD Result	RPD is Units mg/Kg RPD is Date Ar QC Pres S ult Units	based on Dil. 1 based on nalyzed: paration: Units ug/Kg based on Dil.	the spike a Spike Amount 100 the spike a 2009-11- 2009-11- Dil. 1 the spike a Spike Amount	And spike d Matrix Result <2.18 and spike d 12 12 12 12 Spike Amount 20.0 and spike d Matrix Result	Mat Res. 20.3 Wat Res 20.3 Wat	e result 85 e result 96 e result 896 e result R Li	Rec. Jimit - 115 t. Ana Prep Rec. 85 t. Lec. Imit	1 lyzed By pared By 1 52.5 RPD	Limi 20 y: AG y: AG Rec. Limit 5 - 114. RPI Limi
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270 Prep Batch: 55750 Param GRO Percent recovery is based on the Param GRO	spike result. LCSD Result 101 spike result. CS-1) LCS Result LCSD Result 17.2	RPD is Units mg/Kg RPD is Date An QC Pre S ult Units mg/Kg	based on Dil. 1 based on nalyzed: paration: Units ng/Kg based on Dil. 1	the spike a Spike Amount 100 the spike a 2009-11- 2009-11- Dil. 1 the spike a Spike Amount 20.0	and spike d Matrix Result <2.18 and spike d 12 12 12 Spike Amount 20.0 and spike d Matrix Result <0.396	Mat Rec. 101 uplicate Kes <0.3 uplicate Rec. 86	e result 85 e result 96 e result 396 e result R Li 52.5	Rec. 	1 lyzed By pared By 1 52.5	Limi 20 y: AG y: AG Rec. Limit 5 - 114.
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270 Prep Batch: 55750 Param GRO Percent recovery is based on the Param GRO	spike result. LCSD Result 101 spike result. CS-1) LCS Result 17.0 spike result. LCSD Result 17.2 spike result.	RPD is Units mg/Kg RPD is Date An QC Pre S ult Units mg/Kg RPD is	based on Dil. 1 based on halyzed: paration: Units ug/Kg based on Dil. 1 based on	the spike a Spike Amount 100 the spike a 2009-11- 2009-11- Dil. 1 the spike a Spike Amount 20.0	and spike d Matrix Result <2.18 and spike d 12 12 12 Spike Amount 20.0 and spike d Matrix Result <0.396 and spike d	Mat Rec. 101 uplicate Kes <0.3 uplicate Rec. 86 uplicate	e result 85 e result 96 e result 396 e result 52.5 e result	Rec. 	1 lyzed By pared By 1 52.5 RPD 1	Limi 20 y: AG r: AG Rec. Limit 5 - 114. RPI Limi 20
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270 Prep Batch: 55750 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the	spike result. LCSD Result 101 spike result. CS-1) LCSD Result 17.2 spike result. LCSD Result 17.2	RPD is Units mg/Kg RPD is Date Ar QC Pres S ult Units mg/Kg RPD is Cunits mg/Kg	based on Dil. 1 based on alyzed: paration: Units g/Kg based on Dil. 1 based on SD	the spike a Spike Amount 100 the spike a 2009-11- 2009-11- Dil. 1 the spike a Spike Amount 20.0 the spike a	and spike d Matrix Result <2.18 and spike d 12 12 12 Spike Amount 20.0 and spike d Matrix Result <0.396 and spike d Spil	Mat Rec. 101 uplicate Mat Res <0.3 uplicate <u>Rec.</u> 86 uplicate ke	e result 85 e result 96 e result 396 e result 52.5 e result LCS	Rec. Limit - 115 t. Ana. Prep Rec. 85 t. LCSD	1 lyzed By pared By I 52.5 RPD 1	Limi 20 y: AG x: AG Rec. Limit 20 Rec.
Percent recovery is based on the Param Chloride Percent recovery is based on the Laboratory Control Spike (L QC Batch: 65270 Prep Batch: 55750 Param GRO Percent recovery is based on the Param GRO	spike result. LCSD Result 101 spike result. CS-1) LCS Result 17.0 spike result. LCSD Result 17.2 spike result.	RPD is Units mg/Kg RPD is Date Ar QC Pres S dt Units mg/Kg RPD is Units mg/Kg RPD is LCS	based on Dil. 1 based on paration: Units g/Kg based on Dil. 1 based on SD ult U	the spike a Spike Amount 100 the spike a 2009-11- 2009-11- Dil. 1 the spike a Spike Amount 20.0 the spike a Units D	and spike d Matrix Result <2.18 and spike d 12 12 12 Spike Amount 20.0 and spike d Matrix Result <0.396 and spike d	Mat Rec. 101 uplicate Mat Res <0.3 uplicate Rec. 86 uplicate ke unt	e result 85 e result 96 e result 396 e result 52.5 e result	Rec. 	1 lyzed By bared By 1 52.5 RPD 1	Limi 20 y: AG y: AG Rec. Limit 5 - 114. RPE Limi 20

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## Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: ,	65272 55750		te Analyzed: 2 Preparation		11-12 11-12			vzed By: AG ared By: AG
Param		$\mathcal{LCS}$ Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	······································	1.97	mg/Kg	1	2.00	< 0.00410	98	75.4 - 115.7
Toluene		1.96	mg/Kg	1	2.00	< 0.00310	98	78.4 - 113.6
Ethylbenzene	э	1.95	mg/Kg	1	2.00	< 0.00240	98	76 - 114.2
Xylene	_	5.84	mg/Kg	1	6.00	< 0.00650	97	76.9 - 113.6

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
Benzene	2.02	mg/Kg	1	2.00	< 0.00410	101	75.4 - 115.7	2	20
Toluene	2.01	mg/Kg	1	2.00	< 0.00310	100	78.4 - 113.6	<b>2</b>	20
Ethylbenzene	1.99	mg/Kg	1	2.00	< 0.00240	100	76 - 114.2	<b>2</b>	20
Xylene	5.98	mg/Kg	1	6.00	< 0.00650	100	76.9 - 113.6	2	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	$\operatorname{Result}$	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.18	2.18	mg/Kg	1	2.00	109	109	65 - 122.9
4-Bromofluorobenzene (4-BFB)	1.39	1.39	mg/Kg	1	2.00	70	70	43.8 - 124.9

## Matrix Spike (MS-1) Spiked Sample: 214253

QC Batch:	65113	Date Analyzed:	2009-11-06	Analyzed By:	$\mathbf{k}\mathbf{g}$
Prep Batch:	55625	QC Preparation:	2009-11-06	Prepared By:	kg

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	259	mg/Kg	1	250	<5.86	104	35.2 - 167.1

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	246	mg/Kg	1	250	< 5.86	98	35.2 - 167.1	5	20
Percent recovery is based on the s	pike result	. RPD is b	ased of	n the spike	and spike	duplicat	e result.		

	$\mathbf{MS}$	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	114	113	mg/Kg	1	100	114	113	48.5 - 146

114-6400325	13, 2009			rder: 911063 skelly 606 TI			Pag	ge Number: Eddy	21 of 25 Co., NM
Matrix Spike (MS-1)	Spiked Sample: 2	14244							
QC Batch: 65134		Date An	alyzed:	2009-11-09	)			Analyzed B	y: AR
Prep Batch: 55644			paration:	2009-11-09	)			Prepared B	
	М	S			Spike	Mat	trix		Rec.
Param	Res		Units	Dil.	Amount	Res		Rec.	Limit
Chloride	106	<u>600 1</u>	ng/Kg	100	10000	85	50	98	85 - 115
Percent recovery is based	l on the spike result.	RPD is l	based on	the spike an	d spike du	plicate re	esult.		
	MSD	•		Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	10800	mg/Kg	100	10000	850	100	85 - 11	.5 2	20
Percent recovery is based	d on the spike result.	RPD is b	based on t	the spike an	d spike duj	plicate re	esult.		
Matrix Spike (MS-1)	Spiked Sample: 2	14254							
O D.4.1. 65195		Date An	alward.	9000 11 00				An alamad D	A D
QC Batch: 65135 Prep Batch: 55645			baration:	2009-11-09 2009-11-09				Analyzed B Prepared B	•
Tep Datch. 55045		QUITE	Jaration.	2009-11-09	,		L	r lepaieu D	y. An
		a			~	~ ~			
Param	M Res		Units	Dil.	Spike	Mat		D	Rec. Limit -
Chloride	101		ng/Kg	<u> </u>	Amount 10000	$\frac{\text{Res}}{<2}$		Rec. 101	85 - 115
Percent recovery is based								101	00 - 110
ercent recovery is based	-	ILED IS I	Jased on a	the spike and	a spike duj	Jucate re	sun.		
	MSD			Spike	Matrix	_	Rec.		RPD
_			1 341				Limit	RPD	
Param	Result	Units	Dil.	Amount	Result	Rec.	01 11		Limit
Chloride	Result 10200	mg/Kg	100	10000 ·	<218	102	85 - 11		20
Chloride Percent recovery is based	Result 10200 d on the spike result.	mg/Kg RPD is t	100	10000 ·	<218	102			
Chloride Percent recovery is based Matrix Spike (MS-1)	Result 10200 d on the spike result.	mg/Kg RPD is t 14255	100 based on t	10000 the spike and	<218 d spike duj	102	esult.	5 1	20
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 65136	Result 10200 d on the spike result.	mg/Kg RPD is t 14255 Date An	100 pased on t alyzed:	10000 the spike and 2009-11-09	<218 d spike duj	102	esult.	5 1 Analyzed B	20 y: AR
Chloride Percent recovery is based Matrix Spike (MS-1)	Result 10200 d on the spike result.	mg/Kg RPD is t 14255 Date An	100 based on t	10000 the spike and	<218 d spike duj	102	esult.	5 1	20 y: AR
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 65136	Result 10200 I on the spike result. Spiked Sample: 2	mg/Kg RPD is t 14255 Date An QC Prep	100 pased on t alyzed:	10000 the spike and 2009-11-09	<218 d spike duj	102 blicate re	esult. J	5 1 Analyzed B	20 y: AR y: AR
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 65136 Prep Batch: 55646	Result 10200 I on the spike result. Spiked Sample: 2 M	mg/Kg RPD is t 14255 Date An QC Prep S	100 pased on t alyzed: paration:	10000 the spike and 2009-11-09 2009-11-09	<218 d spike duj	102 olicate re	esult. I prix	5 1 Analyzed B Prepared B	20 y: AR y: AR Rec.
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 65136 Prep Batch: 55646	Result 10200 I on the spike result. Spiked Sample: 2 M Res	mg/Kg RPD is t 14255 Date An QC Prep S ult	100 pased on a alyzed: paration: Units	10000 the spike and 2009-11-09 2009-11-09 Dil.	<218 d spike duj Spike Amount	102 olicate re Mat Res	esult. I arix ult	5 1 Analyzed B Prepared B Rec.	20 y: AR y: AR Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 65136 Prep Batch: 55646 Param Chloride	Result 10200 I on the spike result. Spiked Sample: 2 M Res 101	mg/Kg RPD is t 14255 Date An QC Prep S ult 00 r	100 pased on t alyzed: paration: Units ng/Kg	10000 the spike and 2009-11-09 2009-11-09 Dil. 100	<218 d spike duj Spike Amount 10000	102 blicate re Mat Res <2	esult. J grix ult 18	5 1 Analyzed B Prepared B Rec.	20 y: AR y: AR Rec.
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 65136 Prep Batch: 55646	Result 10200 I on the spike result. Spiked Sample: 2 M Res 101	mg/Kg RPD is t 14255 Date An QC Prep S ult 00 r	100 pased on t alyzed: paration: Units ng/Kg	10000 the spike and 2009-11-09 2009-11-09 Dil. 100	<218 d spike duj Spike Amount 10000	102 blicate re Mat Res <2	esult. J grix ult 18	5 1 Analyzed B Prepared B Rec.	20 y: AR y: AR Rec. Limit
Chloride         Percent recovery is based         Matrix Spike (MS-1)         QC Batch:       65136         Prep Batch:       55646         Param         Chloride         Percent recovery is based	Result 10200 I on the spike result. Spiked Sample: 2 M Res 101 I on the spike result. MSD	mg/Kg RPD is t 14255 Date An QC Prep S ult 00 r RPD is t	100 pased on t alyzed: paration: Units ng/Kg pased on t	10000 the spike and 2009-11-09 2009-11-09 Dil. 100 the spike and Spike	<218 d spike duj Spike Amount 10000 d spike duj Matrix	102 blicate re Mat Res <2	esult. Tix ult 18 Isult. Rec.	5 1 Analyzed B Prepared B Rec. 101	20 y: AR y: AR Rec. Limit 85 - 115 RPD
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 65136 Prep Batch: 55646 Param Chloride	Result 10200 I on the spike result. Spiked Sample: 2 M Res 101 I on the spike result.	mg/Kg RPD is t 14255 Date An QC Prep S ult 00 r	100 pased on t alyzed: paration: Units ng/Kg	10000 the spike and 2009-11-09 2009-11-09 Dil. 100 the spike and	<218 d spike du Spike Amount 10000 d spike du	102 blicate re Mat Res <2	esult. Tix ult 18 esult.	5 1 Analyzed B Prepared B Rec. 101 RPD	20 y: AR y: AR Rec. Limit 85 - 115

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114-6400325				G/Skelly 606					Page N	umber: 2 Eddy (	22 of 25 Co., NM
Matrix Spike (MS-1) Spiked	d Sample: 2	14253									
QC Batch: 65270 Prep Batch: 55750			.nalyzed eparatic							yzed By ared By	
	М				-	oike		atrix			Rec.
Param	Res		Units	Dil.		ount		esult	Rec.		Limit
GRO	16		mg/Kg	1		0.0		0.396	80	10	- 198.3
Percent recovery is based on the s	spike result.	RPD is	based of	on the spike	and s	pike dı	iplicat	e result			
	MSD			Spike	Ma	atrix			lec.		RPD
Param	Result	Units	Dil.			esult	Rec.		mit	RPD	Limit
GRO	17.1	mg/Kg	g 1	20.0		).396	86	10 -	198.3	7	20
Percent recovery is based on the s	spike result.	RPD is	based o	on the spike	and sp	pike dı	plicat	e result	•		
	M	5 N	ASD			Sr	oike	MS	MSI	С	Rec.
Surrogate	Rest		esult	Units	Dil.	-	ount	Rec.	Rec		Limit
Trifluorotoluene (TFT)	2.1	4	2.19	mg/Kg	1		2	107	110	65.	5 - 123
4-Bromofluorobenzene (4-BFB)	1.4	2 1	1.45	mg/Kg	1		2	71	72	58.	6 - 140
QC Batch: 65272	d Sample: 2	Date A	nalyzed							yzed By	
QC Batch: 65272	d Sample: 2	Date A	.nalyzed eparatio							yzed By ared By:	
QC Batch: 65272	d Sample: 2 MS	Date A QC Pro	•			е	Mat	rix		ared By:	
QC Batch: 65272 Prep Batch: 55750	-	Date A QC Pro	•		-12		Mat Res			ared By: F L	AG Rec. imit
QC Batch: 65272 Prep Batch: 55750 Param Benzene	MS Resu 2.01	Date A QC Pro lt U	eparatio Units g/Kg	n: 2009-11	Spike Amou 2.00	nt )	Res <0.00	ult )410	Prep Rec. 100	ared By: F L 57.7	AG Rec. imit - 140.7
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene	MS Resu 2.01 2.03	Date A QC Pro	eparatio Units Ig/Kg Ig/Kg	n: 2009-11 Dil. 1 1	-12 Spike Amou 2.00 2.00	nt ) )	Res <0.00 <0.00	ult )410 )310	Prep Rec. 100 102	ared By: F <u>L</u> 57.7 53.4	AG Rec. imit - 140.7 - 146.6
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene	MS Resu 2.01 2.03 2.07	Date A QC Pro	eparatio Units g/Kg g/Kg g/Kg	n: 2009-11 Dil. 1 1 1	500 -12 Spike Amou 2.00 2.00 2.00	nt ) )	Res <0.00 <0.00 <0.00	ult )410 )310 )240	Prep Rec. 100 102 104	ared By: F 57.7 53.4 62.1	AG Rec. imit - 140.7 - 146.6 - 141.6
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene	MS Resu 2.01 2.03 2.07 6.20	Date A QC Pro	Units g/Kg g/Kg g/Kg g/Kg g/Kg	n: 2009-11 Dil. 1 1 1 1	-12 Spike Amou 2.00 2.00 2.00 6.00	nt ) )	Res <0.00 <0.00 <0.00 <0.00	ult )410 )310 )240 )650	Prep Rec. 100 102 104 103	ared By: F 57.7 53.4 62.1	AG Rec. imit - 140.7 - 146.6
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene	MS Resu 2.01 2.03 2.07 6.20 pike result.	Date A QC Pro	Units g/Kg g/Kg g/Kg g/Kg g/Kg	n: 2009-11 Dil. 1 1 1 1 0n the spike	Spike Amou 2.00 2.00 2.00 6.00 and sp	nt ) ) ) pike du	Res <0.00 <0.00 <0.00 <0.00	ult )410 )310 )240 )650	Prep Rec. 100 102 104 103	ared By: F 57.7 53.4 62.1	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD	Date A QC Pro	Units g/Kg g/Kg g/Kg g/Kg based o	n: 2009-11 Dil. 1 1 1 1 0n the spike Spike	Spike Amou 2.00 2.00 6.00 and sp Mat	nt ) ) ) oike du	Res <0.00 <0.00 <0.00 <0.00 aplicate	ult )410 )310 )240 )650 e result. R	Prep <u>Rec.</u> 100 102 104 103 ec.	ared By: F 57.7 53.4 62.1 61.2	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7 RPD
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Param	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD Result	Date A QC Pro	Units g/Kg g/Kg g/Kg g/Kg based o Dil.	n: 2009-11 Dil. 1 1 1 1 on the spike Spike Amount	-12 Spike Amou 2.00 2.00 6.00 and sp Mat Ress	nt ) ) pike du rix ult	Res           <0.00	ult )410 )310 )240 )650 e result. R Li:	Prep <u>Rec.</u> 100 102 104 103	ared By: F 57.7 53.4 62.1 61.2 RPD	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7 RPD Limit
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Param Benzene	MS Resu 2.01 2.03 2.07 6.20 epike result. MSD Result 2.04	Date A QC Pro lt U m RPD is Units mg/Kg	Units Jog/Kg g/Kg g/Kg based of Dil. 1	n: 2009-11 Dil. 1 1 1 1 n the spike Spike Amount 2.00	-12 Spike Amou 2.00 2.00 6.00 and sp Mat Ress <0.00	nt ) ) pike du rix ult 0410	Res           <0.00	ult 0410 0310 0240 0650 e result. R Li: 57.7 -	Prep <u>Rec.</u> 100 102 104 103	ared By: F 57.7 53.4 62.1 61.2 RPD 1	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7 RPD Limit 20
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Param Benzene Toluene	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD Result 2.04 2.07	Date A QC Pro	Units Jog/Kg g/Kg g/Kg based of Dil. 1 1	n: 2009-11 Dil. 1 1 1 1 0n the spike Spike Amount 2.00 2.00	-12 Spike Amou 2.00 2.00 6.00 and sp Mat Ress <0.00 <0.00	nt ) ) oike du rix ult )410 )310	Res           <0.00	ult )410 )310 )240 )650 e result. e result. E 57.7 - 53.4 -	Prep <u>Rec.</u> 100 102 104 103 ec. mit - 140.7 - 146.6	ared By: F 57.7 53.4 62.1 61.2 RPD 1 2	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7 RPD Limit 20 20
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD Result 2.04 2.07 2.11	Date A QC Pro	Units g/Kg g/Kg g/Kg based c Dil. 1 1 1	n: 2009-11 Dil. 1 1 1 1 0n the spike Spike Amount 2.00 2.00 2.00	Spike Amou 2.00 2.00 6.00 and sp Mat Ress <0.00 <0.00 <0.00	nt ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	Res <0.00 <0.00 <0.00 <0.00 uplicate Rec. 102 103 105	ult )410 )310 )240 )650 e result. e result. E 57.7 - 53.4 - 62.1 -	Prep Rec. 100 102 104 103 ec. mit - 140.7 - 146.6 - 141.6	ared By: F 57.7 53.4 62.1 61.2 RPD 1 2 2	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7 RPD Limit 20 20 20
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD Result 2.04 2.07 2.11 6.31	Date A QC Pro lt Units mm RPD is Units mg/Kg mg/Kg mg/Kg mg/Kg	Units g/Kg g/Kg g/Kg gg/Kg based o Dil. 1 1 1 1 1	n: 2009-11 Dil. 1 1 1 1 on the spike Spike Amount 2.00 2.00 2.00 6.00	-12 Spika Amou 2.00 2.00 6.00 and sp Mat Ress <0.00 <0.00 <0.00 <0.00	nt ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	Res <0.00 <0.00 <0.00 <0.00 uplicato Rec. 102 103 105 105	ult )410 )310 )240 )650 e result. E result. 57.7 - 53.4 - 62.1 - 61.2 -	Prep Rec. 100 102 104 103	ared By: F 57.7 53.4 62.1 61.2 RPD 1 2	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7 RPD Limit 20 20
QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylene	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD Result 2.04 2.07 2.11 6.31 pike result.	Date A QC Pro It Units mm RPD is Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Jnits g/Kg g/Kg g/Kg based o Dil. 1 1 1 1 1 based o	n: 2009-11 Dil. 1 1 1 1 on the spike Spike Amount 2.00 2.00 2.00 6.00	-12 Spika Amou 2.00 2.00 6.00 and sp Mat Ress <0.00 <0.00 <0.00 <0.00	nt ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	Res           <0.00	ult )410 )310 )240 )650 e result. E result. 57.7 - 53.4 - 62.1 - 61.2 - e result.	Prep Rec. 100 102 104 103	ared By: F 57.7 53.4 62.1 61.2 RPD 1 2 2 2	AG Rec. 140.7 146.6 141.6 141.6 142.7 RPD Limit 20 20 20 20 20
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QC Batch: 65272 Prep Batch: 55750 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s Param Benzene Toluene Ethylbenzene Xylenc Percent recovery is based on the s Surrogate	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD Result 2.04 2.07 2.11 6.31 pike result. MS Resu	Date A QC Pro- lt U m RPD is Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Units Un	n: 2009-11 Dil. 1 1 1 1 n the spike Spike Amount 2.00 2.00 2.00 2.00 6.00 on the spike Units	-12 Spike Amou 2.00 2.00 6.00 and sp Mat Ress <0.00 <0.00 <0.00 and sp Dil.	nt ojike du rix ult 0410 0310 0240 0650 ojike du Spi Amo	Res           <0.00	ult )410 )310 )240 )2650 e result. e result. MS Rec.	Prep Rec. 100 102 104 103 ec. mit - 140.7 - 146.6 - 141.6 - 142.7 MSD Rec.	ared By: F 57.7 53.4 62.1 61.2 RPD 1 2 2 2 RPD 1 2 2 2 RE Li	AG Rec. imit - 140.7 - 146.6 - 141.6 - 142.7 RPD Limit 20 20 20 20 20 20 20 20 20 20
QC Batch: 65272	MS Resu 2.01 2.03 2.07 6.20 pike result. MSD Result 2.04 2.07 2.11 6.31 pike result. MS	Date A QC Pro	Units Jog/Kg g/Kg g/Kg based of Dil. 1 1 1 1 based of SD sult. .16	n: 2009-11 Dil. 1 1 1 1 0n the spike Spike Amount 2.00 2.00 2.00 6.00 on the spike	Spika Amou 2.000 2.000 2.000 6.000 and sp 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.00000 3.0000 3.0000 3.0000 3.00000 3.00000 3.00000 3.00000000	nt ) pike du rix ult )410 )310 )240 )2650 pike du Spi	Res           <0.00	ult )410 )310 )240 )650 e result. R Li: 57.7 - 53.4 - 62.1 - 61.2 - e result. MS	Prep Rec. 100 102 104 103	ared By: F 57.7 53.4 62.1 61.2 RPD 1 2 2 2 R E i 62.7	AG Rec. imit - 140.7 - 146.6 - 141.6 - 141.7 RPD Limit 20 20 20 20 20

114-640032	e: November 5	13, 2009		Work Order: 9 COG/Skelly 6		Page N	umber: 23 of 25 Eddy Co., NM
Standard	(CCV-1)						
QC Batch:	65113		Date An	alyzed: 2009-1	1-06	An	alyzed By: kg
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO	1 145	mg/Kg	250	276	110	80 - 120	2009-11-06
Standard	(CCV-2)						
QC Batch:	. ,		Date Ana	alyzed: 2009-1	1-06	Ana	alyzed By: kg
_			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param DRO	Flag	Units mg/Kg	<u>Conc.</u> 250	Conc. 291	Recovery 116	Limits 80 - 120	Analyzed 2009-11-06
		mg/ Kg	200	291	110	80 - 120	2009-11-00
Standard QC Batch:			Date An	alyzed: 2009-1	1-06	Ana	alyzed By: kg
			$\mathrm{CCVs}$	CCVs	CCVs	Percent	
Danam	There	Unita	True	Found	Percent	Recovery	Date
	Flag	Units mg/Kg					Analyzed
DRO Standard	(ICV-1)		True Conc. 250	Found Conc.	Percent Recovery 118	Recovery Limits 80 - 120	Analyzed
DRO Standard	(ICV-1)		True Conc. 250 Date Ana ICVs	Found Conc. 295 lyzed: 2009-1 ICVs	Percent Recovery 118 I-09 ICVs	Recovery Limits 80 - 120 Anal Percent	Analyzed 2009-11-06 yzed By: AR
DRO Standard QC Batch:	(ICV-1) 65134	mg/Kg	True Conc. 250 Date Ana ICVs True	Found Conc. 295 lyzed: 2009-1 ICVs Found	Percent Recovery 118 I-09 ICVs Percent	Recovery <u>Limits</u> 80 - 120 Anal Percent Recovery	Analyzed 2009-11-06 yzed By: AR Date
Param DRO Standard QC Batch: Param Chloride	(ICV-1)		True Conc. 250 Date Ana ICVs	Found Conc. 295 lyzed: 2009-1 ICVs	Percent Recovery 118 I-09 ICVs	Recovery Limits 80 - 120 Anal Percent	Analyzed 2009-11-06 yzed By: AR
DRO Standard QC Batch: Param Chloride Standard	(ICV-1) 65134 Flag (CCV-1)	mg/Kg Units	True Conc. 250 Date Ana ICVs True Conc. 100 Date Ana	Found Conc. 295 lyzed: 2009-1: ICVs Found Conc. 104 lyzed: 2009-1:	Percent Recovery 118 I-09 ICVs Percent Recovery 104	Recovery Limits 80 - 120 Anal Percent Recovery Limits 85 - 115 Anal	Analyzed 2009-11-06 yzed By: AR Date Analyzed
DRO <b>Standard</b> QC Batch: Param	(ICV-1) 65134 Flag (CCV-1)	mg/Kg Units	True Conc. 250 Date Ana ICVs True Conc. 100 Date Ana CCVs	Found Conc. 295 lyzed: 2009-1: ICVs Found Conc. 104 lyzed: 2009-1: CCVs	Percent Recovery 118 1-09 ICVs Percent Recovery 104 1-09 CCVs	Recovery Limits 80 - 120 Anal Percent Recovery Limits 85 - 115 Anal Percent	Analyzed 2009-11-06 yzed By: AR Date <u>Analyzed</u> 2009-11-09 yzed By: AR
DRO Standard QC Batch: Param Chloride Standard	(ICV-1) 65134 Flag (CCV-1)	mg/Kg Units	True Conc. 250 Date Ana ICVs True Conc. 100 Date Ana	Found Conc. 295 lyzed: 2009-1: ICVs Found Conc. 104 lyzed: 2009-1:	Percent Recovery 118 I-09 ICVs Percent Recovery 104	Recovery Limits 80 - 120 Anal Percent Recovery Limits 85 - 115 Anal	Analyzed 2009-11-06 yzed By: AR Date Analyzed 2009-11-09

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ParamFlagUnitsConc.Conc.RecoveryLimitsAnalyzChloridemg/Kg10096.89785 - 1152009-11Standard (CCV-1)QC Batch:65135Date Analyzed:2009-11-09Analyzed By: $A$ ParamFlagUnitsConc.CCVsCCVsPercentParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryLimitsOne.Conc.Conc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateQC Batch:65136DateAnalyzed:2009-11-09Analyzed By: $A$ QC Batch:65136DateAnalyzed:2009-11-09Analyzed By: $A$ ParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateChloridemg/Kg10010110185 - 1152009-11Standard (CCV-1)QC Batch:65136Date Analyzed:2009-11-09Analyzed By: $A$ Chloridemg/Kg10098.99985 - 1152009-11Standard (CCV-1)QC Batch:65270Date Analyzed:209-11-12Analyzed By: $A$ CCVsCCVsCCVsCCVsPercentRecoveryDate <th>Report Date 114-6400325</th> <th>e: November 5 </th> <th>13, 2009</th> <th></th> <th>Work Order: 9 COG/Skelly 6</th> <th></th> <th>Page N</th> <th>umber: 24 of 25 Eddy Co., NM</th>	Report Date 114-6400325	e: November 5 	13, 2009		Work Order: 9 COG/Skelly 6		Page N	umber: 24 of 25 Eddy Co., NM
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Standard (	ICV-1)						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	QC Batch:	65135		Date Ana	lyzed: 2009-1	1-09	Anal	yzed By: AR
Standard (CCV-1)QC Batch: $65135$ Date Analyzed: $2009-11-09$ Analyzed By: $A$ ParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryLimitsAnalyzedChloridemg/Kg10010310385 - 1152009-11Standard (ICV-1)QC Batch: $65136$ Date Analyzed: $2009-11-09$ Analyzed By: $A$ ParamFlagUnitsConc.Conc.RecoveryParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateQC Batch:65136Date Analyzed: $2009-11-09$ Analyzed By: $A$ Chloridemg/Kg10010110185 - 1152009-11Standard (CCV-1)QC Batch:65136Date Analyzed: $2009-11-09$ Analyzed By: $A$ Chloridemg/Kg10098.99985 - 1152009-11Standard (CCV-1)QC Batch:65270Date Analyzed: $2009-11-12$ Analyzed By: $A$ CCVsCCVsCCVsPercentRecoveryLimitsQC Batch:65270Date Analyzed: $2009-11-12$ Analyzed By: $A$ CCVsCCVsCCVsPercentRecoveryTrueFoundPercentRecoveryDateTrueFoundPercentRecoveryDate <th></th> <th>Flag</th> <th></th> <th>True Conc.</th> <th>Found Conc.</th> <th>Percent Recovery</th> <th>Recovery Limits</th> <th>Date Analyzed 2009-11-09</th>		Flag		True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Date Analyzed 2009-11-09
QC Batch:       65135       Date Analyzed:       2009-11-09       Analyzed By:       Analyzed								2000 11 00
$\begin{array}{c ccccc} CCVs & CCVs & CCVs & Percent \\ True & Found & Percent & Recovery & Date \\ Recovery & Date \\ Conc. & Conc. & Recovery & Date \\ Limits & Analyz \\ Limits & Analyz \\ Chloride & mg/Kg & 100 & 103 & 103 & 85 - 115 & 2009-11 \\ \hline \\ Standard (ICV-1) \\ QC Batch: 65136 & Date Analyzed: 2009-11-09 & Analyzed By: A \\ ICVs & ICVs & ICVs & Percent \\ True & Found & Percent & Recovery & Date \\ Recovery & Date & Conc. & Recovery & Date \\ ICVs & ICVs & ICVs & Percent \\ True & Found & Percent & Recovery & Date \\ Analyzed By: A \\ Param & Flag & Units & Conc. & Recovery & Limits & Analyz \\ Chloride & mg/Kg & 100 & 101 & 101 & 85 - 115 & 2009-11 \\ \hline \\ Standard (CCV-1) \\ QC Batch: & 65136 & Date Analyzed: & 2009-11-09 & Analyzed By: A \\ \hline \\ Param & Flag & Units & Conc. & Corc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Limits & Analyz \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Limits & Analyz \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Limits & Analyz \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Limits & Analyz \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Limits & Analyz \\ \hline \\ \hline \\ Param & Flag & Units & Conc. & Corc. & Recovery & Limits & Analyz \\ \hline \\ $	Standard (	CCV-1)						
ParamFlagUnitsConc.Conc.RecoveryDateChloridemg/Kg10010310385 - 1152009-11Standard (ICV-1)QC Batch:65136Date Analyzed:2009-11-09Analyzed By:#ICVsICVsICVsICVsPercentRecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateQC Batch:65136Date Analyzed:2009-11-09Analyzed By:AParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateChloridemg/Kg10098.99985 - 1152009-11Standard (CCV-1)QC Batch:65270Date Analyzed:2009-11-12Analyzed By:ACCVsCCVsCCVsCCVsPercentTrueFoundPercentRecoveryDateCVsCCVsCCVsCCVsPercentRecovery <td< td=""><td>QC Batch:</td><td>65135</td><td></td><td>Date Ana</td><td>lyzed: 2009-1</td><td>1-09</td><td>Anal</td><td>yzed By: AR</td></td<>	QC Batch:	65135		Date Ana	lyzed: 2009-1	1-09	Anal	yzed By: AR
Standard (ICV-1)         QC Batch:       65136       Date Analyzed:       2009-11-09       Analyzed By:       Analyzed By: </td <td></td> <td>Flag</td> <td></td> <td>True Conc.</td> <td>Found Conc.</td> <td>Percent Recovery</td> <td>Recovery Limits</td> <td>Date Analyzed</td>		Flag		True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Date Analyzed
ICVs     ICVs     ICVs     ICVs     Percent       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Chloride     mg/Kg     100     101     101     85 - 115     2009-11       Standard (CCV-1)     QC Batch:     65136     Date Analyzed:     2009-11-09     Analyzed By: A       CCVs     CCVs     CCVs     Percent     Recovery     Date       Param     Flag     Units     Conc.     Covery     Limits     Analyzed By: A       CLVs     CCVs     CCVs     Percent     Recovery     Date       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Chloride     mg/Kg     100     98.9     99     85 - 115     2009-11       Standard (CCV-1)     QC Batch:     65270     Date Analyzed:     2009-11-12     Analyzed By: A       CCVs     CCVs     CCVs     Percent     Recovery     Date       True     Found     Percent     Recovery     Date	Chloride		· mg/Kg	100	103	103	85 - 115	2009-11-09
ICVs     ICVs     ICVs     ICVs     Percent       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Chloride     mg/Kg     100     101     101     85 - 115     2009-11       Standard (CCV-1)     QC Batch:     65136     Date Analyzed:     2009-11-09     Analyzed By:     A       Param     Flag     Units     CCVs     CCVs     Percent       True     Found     Percent     Recovery     Date       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Param     Flag     Units     Conc.     Conc.     Recovery     Date       Chloride     mg/Kg     100     98.9     99     85 - 115     2009-11       Standard (CCV-1)     QC Batch:     65270     Date Analyzed:     2009-11-12     Analyzed By:     A       CCVs     CCVs     CCVs     Percent     Recovery     Date       True     Found     Percent     Recovery     Date	Standard (	(ICV-1)						
ParamFlagUnitsTrueFoundPercentRecoveryDateChloridemg/Kg10010110110185 - 1152009-11Standard (CCV-1)QC Batch:65136Date Analyzed:2009-11-09Analyzed By:AParamFlagUnitsCCVsCCVsPercentRecoveryDateParamFlagUnitsConc.Conc.RecoveryDateParamFlagUnitsConc.Conc.RecoveryDateChloridemg/Kg10098.99985 - 1152009-11Standard (CCV-1)QC Batch:65270Date Analyzed:2009-11-12Analyzed By:ACCVsCCVsCCVsCCVsPercentRecoveryDateStandard (CCV-1)CCVsCCVsCCVsPercentRecoveryDateStandard (CCV-1)DateAnalyzed:2009-11-12Analyzed By:ACCVsCCVsCCVsCCVsPercentRecoveryDateStandard (CCV-1)DateAnalyzed:2009-11-12Analyzed By:ACCVsCCVsCCVsCCVsPercentRecoveryDateCCVsCCVsCCVsCCVsPercentRecoveryDateCCVsCCVsCCVsPercentRecoveryDateCCVsCCVsCCVsPercentRecoveryDate	QC Batch:	65136		Date Ana	lyzed: 2009-1	1-09	Anal	yzed By: AR
Chloride       mg/Kg       100       101       101       85 - 115       2009-11         Standard (CCV-1)       QC Batch: 65136       Date Analyzed: 2009-11-09       Analyzed By: A         CCVs       CCVs       CCVs       Percent         True       Found       Percent       Recovery       Date         Param       Flag       Units       Conc.       Conc.       Recovery       Limits       Analyzed         Chloride       mg/Kg       100       98.9       99       85 - 115       2009-11         Standard (CCV-1)       QC Batch:       65270       Date Analyzed:       2009-11-12       Analyzed By: A         CCVs       CCVs       CCVs       Percent       CCVs       Percent         True       Found       Percent       Recovery       Date								Date
Standard (CCV-1)       QC Batch: 65136       Date Analyzed: 2009-11-09       Analyzed By: A         CCVs       CCVs       CCVs       Percent         True       Found       Percent       Recovery       Date         Param       Flag       Units       Conc.       Conc.       Recovery       Limits       Analyzed         Chloride       mg/Kg       100       98.9       99       85 - 115       2009-11         Standard (CCV-1)       QC Batch:       65270       Date Analyzed: 2009-11-12       Analyzed By: A         CCVs       CCVs       CCVs       Percent       Recovery       Date         True       Found       Percent       Recovery       Date		Flag						Analyzed 2009-11-09
QC Batch: 65136       Date Analyzed: 2009-11-09       Analyzed By: A         CCVs       CCVs       CCVs       Percent         Param       Flag       Units       Conc.       Conc.       Recovery       Date         Chloride       mg/Kg       100       98.9       99       85 - 115       2009-11         Standard (CCV-1)       QC Batch:       65270       Date Analyzed: 2009-11-12       Analyzed By: A         CCVs       CCVs       CCVs       Percent       Recovery       Date         CVs       CCVs       CCVs       Percent       Recovery       Date         QC Batch:       65270       Date Analyzed: 2009-11-12       Analyzed By: A         CCVs       CCVs       CCVs       Percent       Recovery       Date         True       Found       Percent       Recovery       Date								
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QC Batch: 65270 Date Analyzed: 2009-11-12 Analyzed By: A CCVs CCVs CCVs Percent True Found Percent Recovery Date	Chloride		mg/Kg	100	98.9	99	85 - 115	2009-11-09
CCVs CCVs CCVs Percent True Found Percent Recovery Date	Standard (	CCV-1)						
True Found Percent Recovery Date	QC Batch:	65270		Date Ana	lyzed: 2009-11	-12	Anal	yzed By: AG
	_		<b></b>	True	Found	Percent	Recovery	Date
	Param	Flag	Units	<u> </u>	<u>Conc.</u>	Recovery	Limits	Analyzed 2009-11-12

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Report Date 114-6400325	e: November 13 5	3, 2009		Vork Order: 91 COG/Skelly 60		Page N	umber: 25 of 2 Eddy Co., NM
Standard (	CCV-2)						
QC Batch:	65270		Date Analy	zed: 2009-11-	-12	Anal	yzed By: AG
			CCVs	CCVs	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.967	97	80 - 120	2009-11-12
Standard (	CCV-1)						
QC Batch:	65272		Date Analy	/zed: 2009-11-	-12	Anal	yzed By: AG
			CCVs	CCVs	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.105	105	80 - 120	2009-11-12
Toluene		mg/Kg	0.100	0.106	106	80 - 120	2009-11-12
Ethylbenzen	e	mg/Kg	0.100	0.106	106	80 - 120	2009-11-12
Xylene		mg/Kg	0.300	0.317	106	80 - 120	2009-11-12
Standard (	CCV-2)						
QC Batch:	65272		Date Analy	zed: 2009-11-	-12	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0972	97	80 - 120	2009-11-12
Foluene		mg/Kg	0.100	0.0964	96	80 - 120	2009-11-12
Ethylbenzen	e	mg/Kg	0.100	0.0941	94	80 - 120	2009-11-12
Xylene		mg/Kg	0.300	0.282	94	80 - 120	2009-11-12

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Order #: 9110									_		
Analysis Request of		Av Record				1	PAGE:	1	OF:	-7	
Analysis nequest of	Chain of Custor	ay necord					SIS REQU		- 1	-	
- 1910 / Midlar	<b>RATECH</b> N. Big Spring St. nd, Texas 79705 2-4559 • Fax (432) 682-3946		6 (Ext. to C35)	1 01	BC BU DL JA						
	MANAGER:	PRESERVATIV	0216 8015 MOD.1 TX1005	86		1/624	52870		tiona, pH, TDS		
	The Tanger			8	8 8	/8260	824		tions		
114-6460325 CGG Skelly	Lolilo TB	Y/N)	S S	la Ag		8240	898	2			
LAB I.D. NUMBER DATE TIME TIME AND STREET	CALLECT. NAT SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS METHOD HCL HCL NONE NONE	8TEX 80218 TPH 8015	PAH 8270 RCRA Metais Ag As Ba C	TCLP Volatiles TCLP Semi Volatile	RCI GC.MS Vol. 8240/8260/624	GC.MB Semit Vol. 8270/625 PCB's 8080/608 Peat. 808/608	Gamma Spiec. Alaba Baba (Al	PLM (Asbestos) Major Anions/Ca		
214235 11-3 5 X AH-1	0-1	1 X	X	·				X			
236 ) AH-1	1-1.5-1										
257 AH-1	2-2.5-							$\mathbb{A}$			
238 / AH.2	0-1		X		Ì						
239 / AH-2	1-1.5-										
240 44-2	2-2.5							//			
241 / / AH-3	0-1		X								
242 AN-3	1-1.5-				$\downarrow$		$\downarrow\downarrow\downarrow\downarrow$	11	<u>    -</u>		
243 AH-3	2-2.5-	(  _   )  _			<u>_</u>			41			
244 V AH-4 RELINCUISHED BY: (Signature) Data			X					VI L	Dete: (		
RELINGUISHED BY: (Signature) Date:	ACCEIVED BY: (Substant)	Date:	<u><u> </u></u>	SAMPLE	SHIPPED	BY: (Circle) BUS	le.T	AU	71mm:	12	ā
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RECEIVING LABORATORY: 1000 C	AECEIVED BY: (Signature)			I	They	TOVE	172		RUSH ( Author		
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CLIENT NAM						(432)		59 • Fax	<pre>(432) 682-3946 .</pre>			- <b></b> -	0055		ATIVE		TX1005 (Ext.					7	25						4, TDS		
10	6						<u>Ek</u>		Taxarez.		VINERS			ETH					As Ba		g	9/09/	8270/6						ations, pH, 1		
PROJECT N	0032		╞	r T		ME: 	<i></i>	et la Coleta	, Co. NA	<u>,</u>	NUMBER OF CONTAINERS	HCL HCL				3021B	8015 MOD	270	TCLP Metals Ag	TCLP Volatiles	TCLP Semi Volatiles	Vol 8240/6	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	08/608	<u>í</u>	a opec. Rats (Air)	PLM (Asbestos)	Major Anions/Cati		
NUMBER	DATE 2005	TIME	MATRIX	COMP	8		SAN	MPLE ID	ENTIFICATION		NUMBI		HN03	빙	NONE	BTEX 8021B		PAH 8	TCLP	TCLP	TCLP	RCI GC MS	GC.MS	PCB's	Pest. 8		Aluha	hun (	Major		
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			. [			1910 N. Big Midland, Te (432) 682-4556	exas 79705 • Fax (432) 682-3946	VERS		Pf		ERVA			TX1005 (Ext. to C35)	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	s Ba Cd Vr Pd Hg Se			60/624	270/625					ns, pH, TDS		
PROJECT N			1 C			NAME		ONTAL	Î	Τ		T		1	MOD.	Ag As	Ag Ai	5		240/82	Vol. 8	8			E	/Catio		
 LAB I.D. NUMBER	4003 DATE	]	MATRIX	COMP:	GRAB	, , ,	<u>Dia 775</u> Educi CaNM PLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	ЧĊ	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. PAH 8270	<b>RCRA Metals</b>	TCLP Metals	TCLP Volatile	RCI Serie Volaules	GC.MS Vol. 8240/8260/824	GC.MS Semi. Vol. 8270/625	PCB's 8080/60 Pest. 808/608	Chlorida	Gamma Spec.	Alpha Beta (Air) PLM (Asbestos)	Major Anions/Cations,		
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