



TETRA TECH

HOBBS OCD

MAR 01 2011

RECEIVED

March 1, 2011

Mr. Geoffrey Liking
Environmental Engineer
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Work Plan for the COG Operating LLC.
JC Federal #19 Well
Unit G, Section 22, Township 17 South, Range 32 East
Lea County, New Mexico.**

Mr. Liking:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the JC Federal #19 Well, Unit G, Section 22, Township 17 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.82122°, W 103.75314°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on October 10, 2010, and released approximately fifteen (15) barrels of produced fluids due to loose bolts on a stuffing box. To alleviate the problem, COG personnel repacked the stuffing box and cleaned the backpressure assembly unit. Twelve (12) barrels of standing fluids were recovered. The majority of the spill was contained on the caliche pad impacting an area approximately 130' x 115'. The spill migrated east and impacted an area approximately 15' x 30' in the adjacent pasture. The initial C-141 forms is enclosed in Appendix C.

Groundwater

The United States Geological Survey (USGS) Well Reports did not list any wells in Section 21. However, the USGS Well Report did list two wells in Section 11 with reported depths of 70' and 88' below ground surface (bgs). To establish depth to groundwater, Tetra Tech previously installed a temporary monitor well in Section 30 to a depth of 180' bgs and did not encounter groundwater. The groundwater data is shown in Appendix A.



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According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 100' below surface. The Water Well Data is shown in Appendix A.

Regulatory

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

Soil Assessment and Analytical Results

On October 25, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of nine (9) auger holes (AH-1 through AH-9) 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 B. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all of the submitted samples were below the RRAL for TPH and BTEX. The chloride concentrations for AH-3 and AH-9 were below 250 mg/kg. The highest chloride concentrations were detected at the surface for AH-1 (0-1') of 3,420 mg/kg and AH-5 (0-1') of 2,190 mg/kg. Chloride concentrations declined to <200 mg/kg with depth with the exception of AH-1 at 7-7.5' with a concentration of 665 mg/kg. This chloride encountered at this depth appears to be historic based on the soil chloride profile and will not be addressed or further delineated as part of this remediation effort.

Work Plan

COG proposes to remove impacted material as highlighted (green) in Table 1. Once the areas are excavated to the appropriate depths, the



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excavation will be backfilled with clean soil. Upon completion, a final report will be submitted to the NMOCD.

The area near AH-1 will be excavated to a depth of approximately 2.5' below surface. The area near AH-5 will be excavated to a depth of approximately 1' below surface. Confirmation samples will be collected and lab analysis will be provided for closure. The areas near AH-2, AH-4, AH-6, AH-7, and AH-8 did not have soils samples that exceeded 1,000 mg/kg. No excavation activities are planned for these areas. The proposed excavation areas and proposed depths are shown on Figure 4.

If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

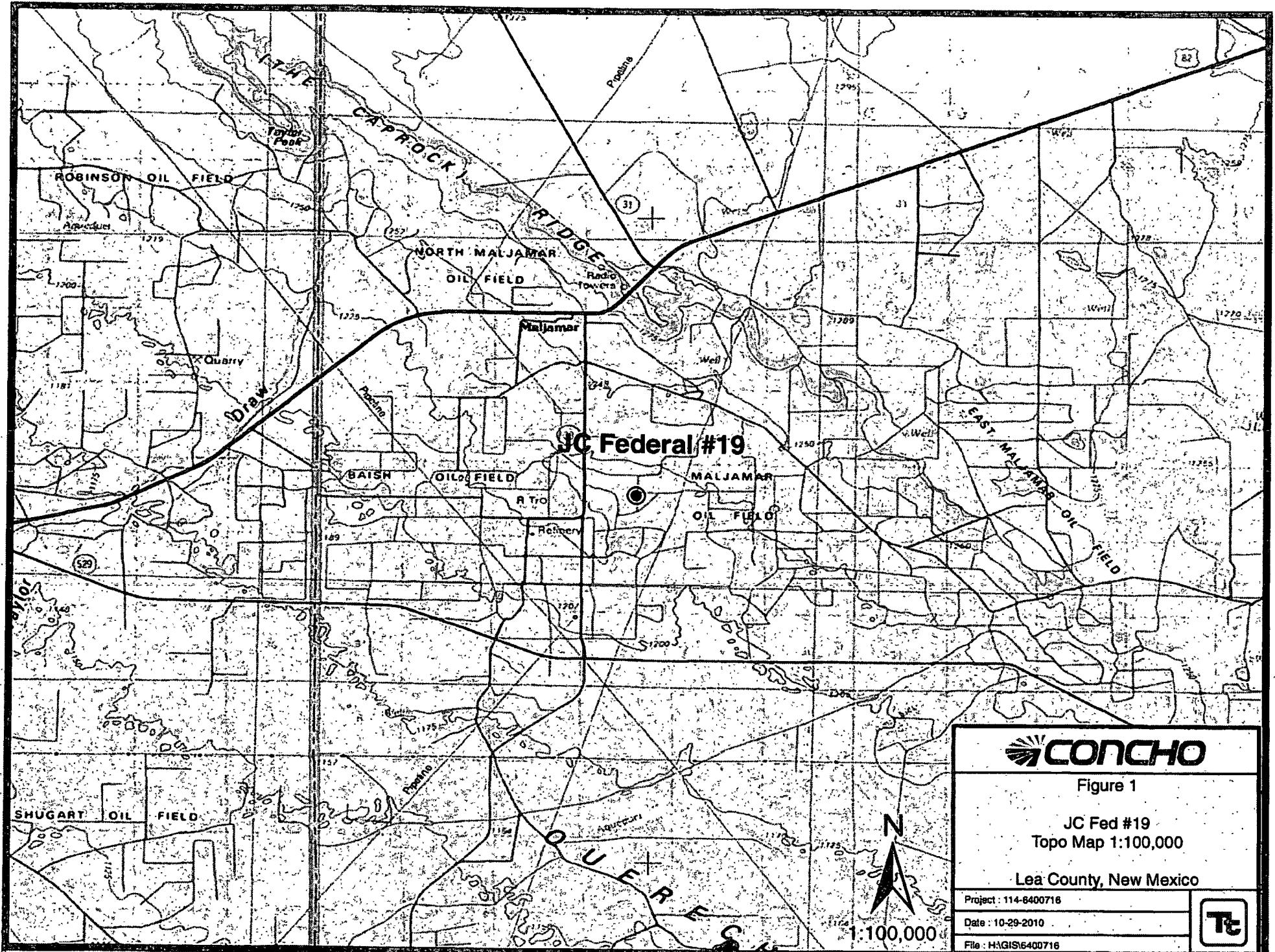
Respectfully submitted,
TETRA TECH, INC.

A handwritten signature in black ink, appearing to read "Aaron M. Hale".

Aaron M. Hale
Senior Project Manager

cc: Pat Ellis – COG
cc: Jim Amos – BLM
cc: Terry Gregston - BLM

FIGURES



CONCHO

Figure 1

JC Fed #19
Topo Map 1:100,000

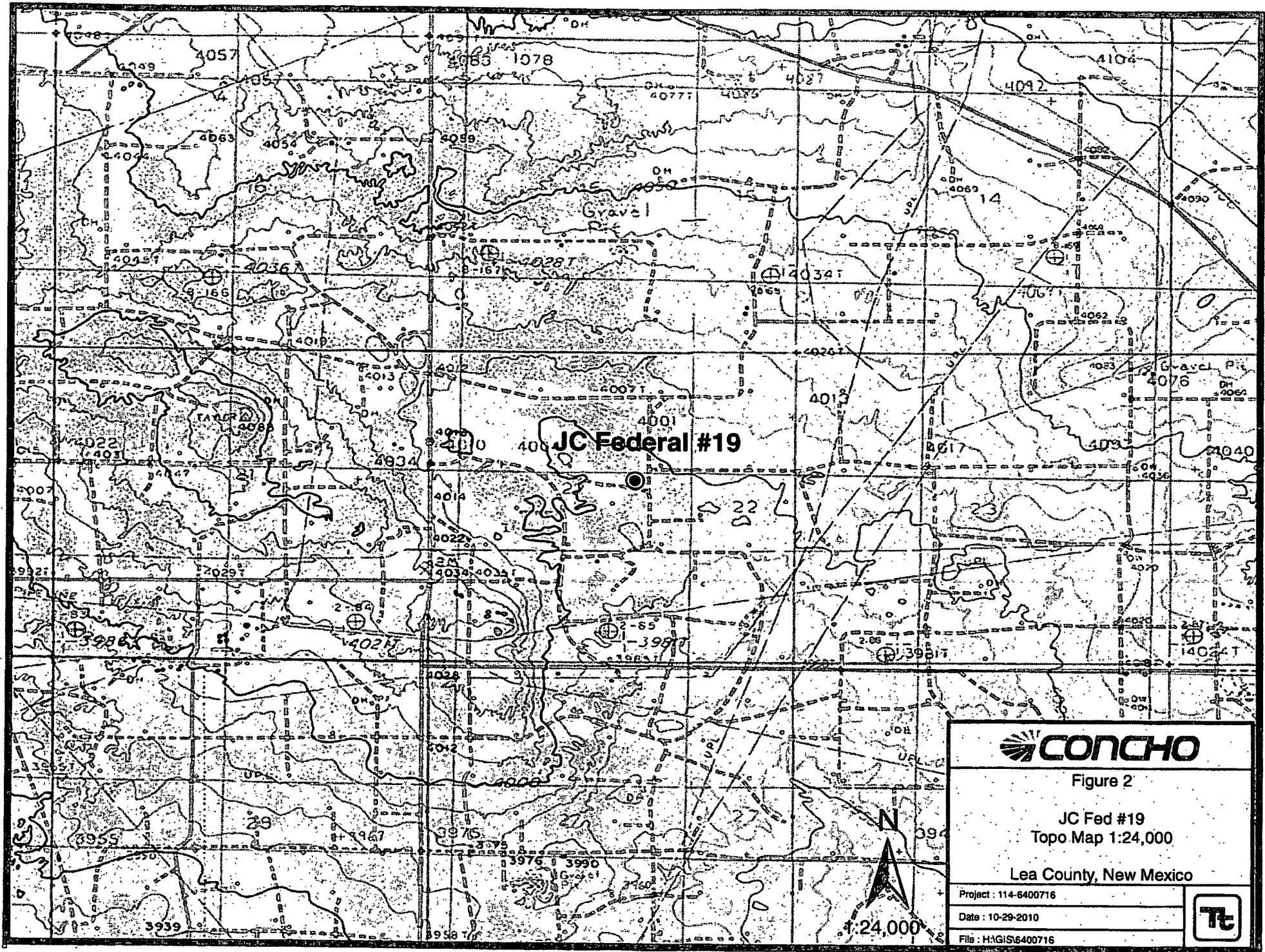
Lea County, New Mexico

Project : 114-6400716

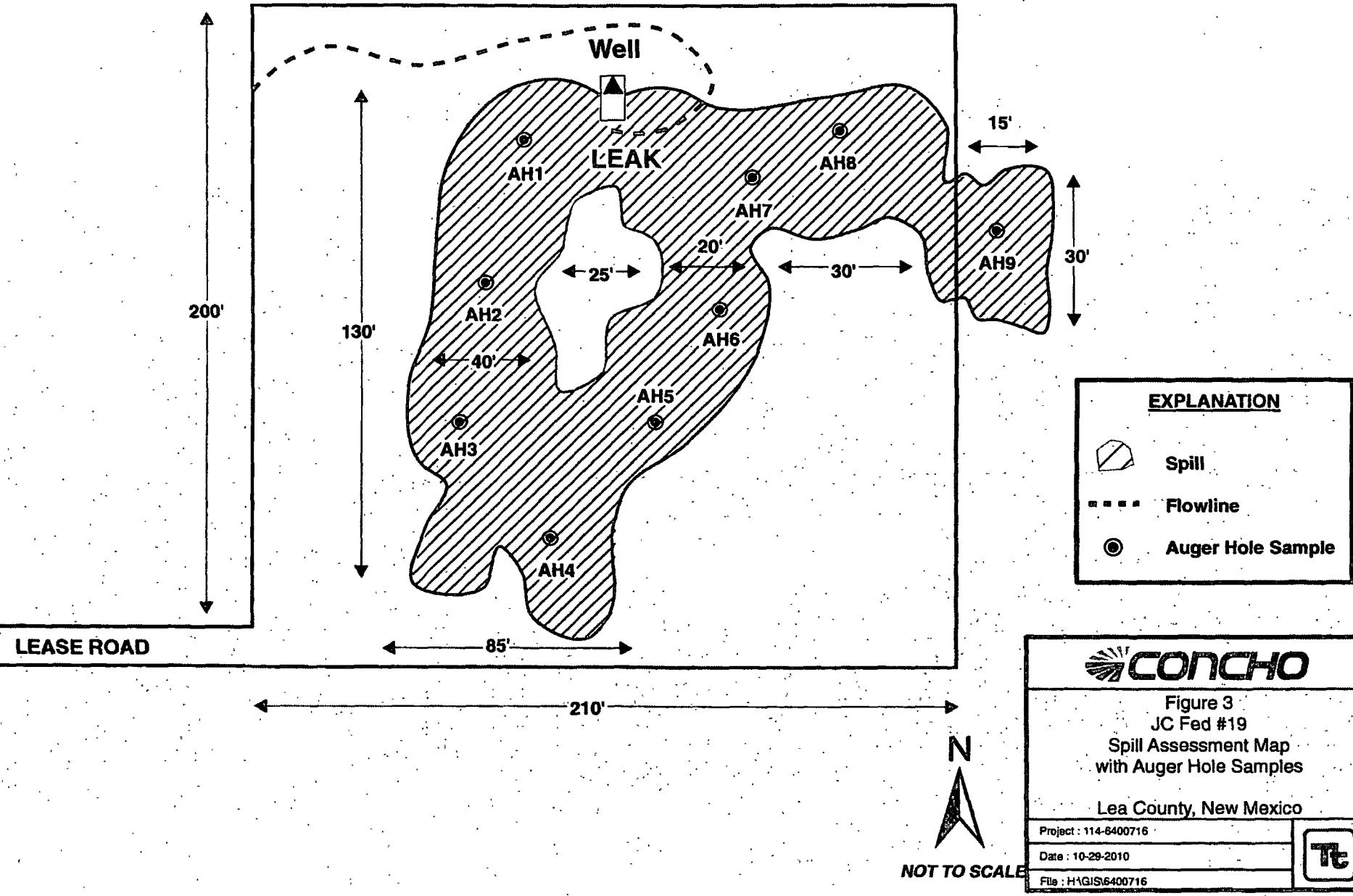
Date : 10-29-2010

File : HAGIS6400716

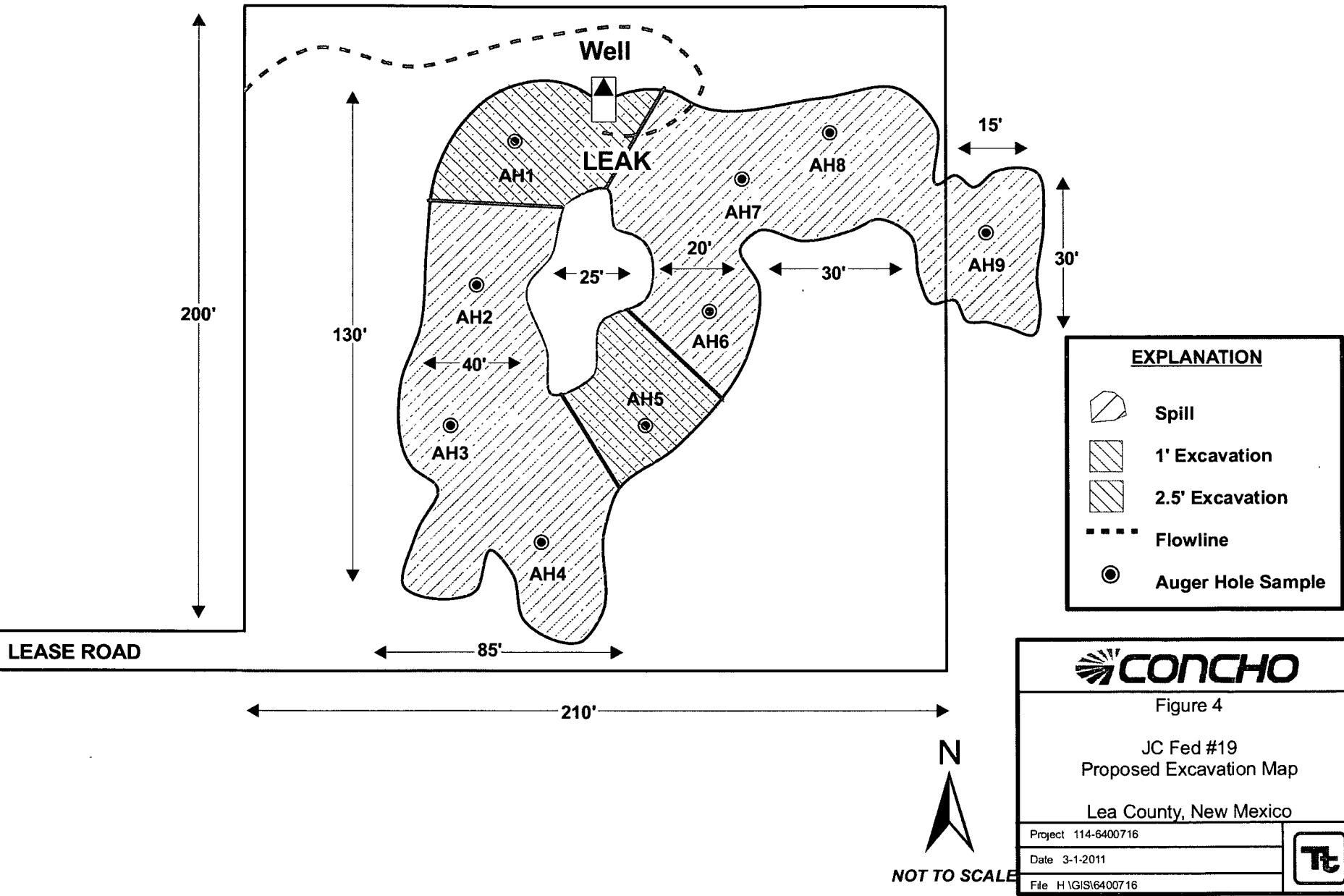




JC Federal #19



JC Federal #19



TABLES

Table 1
COG Operating LLC.
JC FEDERAL #19
Lea County, New Mexico

**Table 1
COG Operating LLC.
JC FEDERAL #19
Lea County, New Mexico**

Table 1
COG Operating LLC.
JC FEDERAL #19
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
AH-7	10/25/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	357
	"	1-1.5'		X		-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	<200
	"	4-4.5'		X		-	-	-	-	-	-	-	<200
AH-8	10/25/2010	0-1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	833
	"	1-1.5'		X		-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	<200
	"	4-4.5'		X		-	-	-	-	-	-	-	<200
AH-9	10/25/2010	0-1'	1' BEB	X		<2.00	<50.0	<50.0	-	-	-	-	<200
	"	1-1.5'	1' BEB	X		-	-	-	-	-	-	-	<200
	"	2-2.5'	1' BEB	X		-	-	-	-	-	-	-	<200
	"	3-3.5'	1' BEB	X		-	-	-	-	-	-	-	<200
	"	4-4.5'	1' BEB	X		-	-	-	-	-	-	-	<200

BEB Below Excavation Bottom

(--) Not Analyzed

Proposed Excavation depths

APPENDIX A

SAMPLE LOG

Boring/Well: TMW-1 Dry Well in Sec 30 17S- 32E
Project Number: 114-6400224
Client: COG
Site Location: Pronghorn Section 30
Location: Lea County, New Mexico
Total Depth 180
Date Installed: 07/14/09

DEPTH (FT)	OVM	SAMPLE DESCRIPTION
5-6	--	Brown fine grain sand
10-11	--	Buff limestone
15-16	--	Tan to buff calcareous sand with chert intermixed.
20-21	--	Tan calcareous sand
25-26	--	Tan fine grain sand
30-31	--	Tan to yellow sandy clay
35-36	--	Reddish clayey sand with gravel
40-41	--	Red gravelly fine grain sand
45-46	--	Red to buff gravelly calcareous sand
50-51	--	Red fine grain sand
55-56	--	Red sandy silt
60-61	--	Red silty clay (dry)
65-66	--	Red coarse grain clayey sand
70-71	--	Red fine grain sand
75-76	--	Red fine grain sand
80-81	--	Red gravelly sand
85-86	--	Red fine grain silty clay with some sand intermixed
90-91	--	Red fine grain silty clay with some sand intermixed
95-96	--	Red fine grain silty clay with some sand intermixed
100-101	--	Red fine grain silty clay with some sand intermixed
105-106	--	Tan red fine grain sand
110-111	--	Tan fine grain sand
115-116	--	Tan fine grain sand
120-121	--	Tan to red fine grain sand
130-131	--	Red clay of high plasticity (Red bed)
140-141	--	Red clay of high plasticity (Red bed)
150-151	--	Red clay of high plasticity (Red bed) intermixed with gravel
160-161	--	Red clay of high plasticity (Red bed) intermixed with gravel
170-171	--	Red clay of high plasticity (Red bed) intermixed with gravel
180-181	--	Red clay of high plasticity (Red bed)

Total Depth is 181 feet

Groundwater was not encountered

APPENDIX B

Summary Report

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

Report Date: November 9, 2010

Work Order: 10102933



Project Location: Lea Co., NM
 Project Name: COG/JC Fed. #19
 Project Number: 114-6400716

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
249169	AH-1 0-1'	soil	2010-10-25	00:00	2010-10-29
249170	AH-1 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249171	AH-1 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249172	AH-1 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249173	AH-1 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249174	AH-1 5-5.5'	soil	2010-10-25	00:00	2010-10-29
249175	AH-1 6-6.5'	soil	2010-10-25	00:00	2010-10-29
249176	AH-1 7-7.5'	soil	2010-10-25	00:00	2010-10-29
249177	AH-2 0-1'	soil	2010-10-25	00:00	2010-10-29
249178	AH-2 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249179	AH-2 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249180	AH-2 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249181	AH-2 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249182	AH-3 0-1'	soil	2010-10-25	00:00	2010-10-29
249183	AH-3 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249184	AH-3 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249185	AH-3 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249186	AH-3 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249187	AH-4 0-1'	soil	2010-10-25	00:00	2010-10-29
249188	AH-4 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249189	AH-4 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249190	AH-4 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249191	AH-4 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249192	AH-5 0-1"	soil	2010-10-25	00:00	2010-10-29
249193	AH-5 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249194	AH-5 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249195	AH-5 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249196	AH-5 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249197	AH-5 5-5.5'	soil	2010-10-25	00:00	2010-10-29
249198	AH-5 6-6.5'	soil	2010-10-25	00:00	2010-10-29

Param	Flag	Result	Units	RL
Chloride		1720	mg/Kg	4.00

Sample: 249172 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		890	mg/Kg	4.00

Sample: 249173 - AH-1 4-4.5'

Param	Flag	Result	Units	RL
Chloride		430	mg/Kg	4.00

Sample: 249174 - AH-1 5-5.5'

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

Sample: 249175 - AH-1 6-6.5'

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

Sample: 249176 - AH-1 7-7.5'

Param	Flag	Result	Units	RL
Chloride		665	mg/Kg	4.00

Sample: 249177 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		573	mg/Kg	4.00

Sample: 249178 - AH-2 1-1.5'

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

Sample: 249179 - AH-2 2-2.5'

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

Sample: 249180 - AH-2 3-3.5'

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

Sample: 249181 - AH-2 4-4.5'

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

Sample: 249182 - AH-3 0-1'

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

Sample: 249183 - AH-3 1-1.5'

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

Sample: 249184 - AH-3 2-2.5'

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

Sample: 249185 - AH-3 3-3.5'

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

Sample: 249186 - AH-3 4-4.5'

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

Sample: 249187 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		311	mg/Kg	4.00

Sample: 249188 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		276	mg/Kg	4.00

Sample: 249189 - AH-4 2-2.5'

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

Sample: 249190 - AH-4 3-3.5'

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

Sample: 249191 - AH-4 4-4.5'

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

Sample: 249192 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		2190	mg/Kg	4.00

Sample: 249193 - AH-5 1-1.5'

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

Sample: 249194 - AH-5 2-2.5'

Param	Flag	Result	Units	RL
Chloride		815	mg/Kg	4.00

Sample: 249195 - AH-5 3-3.5'

Param	Flag	Result	Units	RL
Chloride		209	mg/Kg	4.00

Sample: 249196 - AH-5 4-4.5'

Param	Flag	Result	Units	RL
Chloride		800	mg/Kg	4.00

Sample: 249197 - AH-5 5-5.5'

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

Sample: 249198 - AH-5 6-6.5'

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

Sample: 249199 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		474	mg/Kg	4.00

Sample: 249200 - AH-6 1-1.5'

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

Sample: 249201 - AH-6 2-2.5'

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

Sample: 249202 - AH-6 3-3.5'

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

Sample: 249203 - AH-6 4-4.5'

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

Sample: 249204 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		357	mg/Kg	4.00

Sample: 249205 - AH-7 1-1.5'

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

Sample: 249206 - AH-7 2-2.5'

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

Sample: 249207 - AH-7 3-3.5'

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

Sample: 249208 - AH-7 4-4.5'

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

Sample: 249209 - AH-8 0-1'

Param	Flag	Result	Units	RL
Chloride		833	mg/Kg	4.00

Sample: 249210 - AH-8 1-1.5'

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

Sample: 249211 - AH-8 2-2.5'

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

Sample: 249212 - AH-8 3-3.5'

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

Sample: 249213 - AH-8 4-4.5'

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

Sample: 249214 - AH-9 0-1' 1' BEB

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

Sample: 249215 - AH-9 1-1.5' 1' BEB

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

Sample: 249216 - AH-9 2-2.5' 1' BEB

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

Sample: 249217 - AH-9 3-3.5' 1' BEB

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

Sample: 249218 - AH-9 4-4.5' 1' BEB

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

TRACE ANALYSIS, INC.

5701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•794•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Read, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•699•6301 FAX 432•699•6313
6015 Harris Parkway, Suite 140 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

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

NELAP Certifications

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 9, 2010

Work Order: 10102933



Project Location: Lea Co., NM
Project Name: COG/JC Fed. #19
Project Number: 114-6400716

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
249169	AH-1 0-1'	soil	2010-10-25	00:00	2010-10-29
249170	AH-1 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249171	AH-1 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249172	AH-1 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249173	AH-1 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249174	AH-1 5-5.5'	soil	2010-10-25	00:00	2010-10-29
249175	AH-1 6-6.5'	soil	2010-10-25	00:00	2010-10-29
249176	AH-1 7-7.5'	soil	2010-10-25	00:00	2010-10-29
249177	AH-2 0-1'	soil	2010-10-25	00:00	2010-10-29
249178	AH-2 1-1.5'	soil	2010-10-25	00:00	2010-10-29

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
249179	AH-2 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249180	AH-2 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249181	AH-2 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249182	AH-3 0-1'	soil	2010-10-25	00:00	2010-10-29
249183	AH-3 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249184	AH-3 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249185	AH-3 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249186	AH-3 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249187	AH-4 0-1'	soil	2010-10-25	00:00	2010-10-29
249188	AH-4 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249189	AH-4 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249190	AH-4 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249191	AH-4 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249192	AH-5 0-1'	soil	2010-10-25	00:00	2010-10-29
249193	AH-5 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249194	AH-5 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249195	AH-5 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249196	AH-5 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249197	AH-5 5-5.5'	soil	2010-10-25	00:00	2010-10-29
249198	AH-5 6-6.5'	soil	2010-10-25	00:00	2010-10-29
249199	AH-6 0-1'	soil	2010-10-25	00:00	2010-10-29
249200	AH-6 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249201	AH-6 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249202	AH-6 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249203	AH-6 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249204	AH-7 0-1'	soil	2010-10-25	00:00	2010-10-29
249205	AH-7 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249206	AH-7 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249207	AH-7 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249208	AH-7 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249209	AH-8 0-1'	soil	2010-10-25	00:00	2010-10-29
249210	AH-8 1-1.5'	soil	2010-10-25	00:00	2010-10-29
249211	AH-8 2-2.5'	soil	2010-10-25	00:00	2010-10-29
249212	AH-8 3-3.5'	soil	2010-10-25	00:00	2010-10-29
249213	AH-8 4-4.5'	soil	2010-10-25	00:00	2010-10-29
249214	AH-9 0-1' 1' BEB	soil	2010-10-25	00:00	2010-10-29
249215	AH-9 1-1.5' 1' BEB	soil	2010-10-25	00:00	2010-10-29
249216	AH-9 2-2.5' 1' BEB	soil	2010-10-25	00:00	2010-10-29
249217	AH-9 3-3.5' 1' BEB	soil	2010-10-25	00:00	2010-10-29
249218	AH-9 4-4.5' 1' BEB	soil	2010-10-25	00:00	2010-10-29

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



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

Standard Flags

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

Case Narrative

Samples for project COG/JC Fed. #19 were received by TraceAnalysis, Inc. on 2010-10-29 and assigned to work order 10102933. Samples for work order 10102933 were received intact at a temperature of 3.5 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	64292	2010-11-01 at 11:00	74940	2010-11-01 at 13:18
BTEX	S 8021B	64310	2010-11-02 at 10:15	74966	2010-11-02 at 10:31
BTEX	S 8021B	64352	2010-11-03 at 10:15	75018	2010-11-03 at 12:04
Chloride (Titration)	SM 4500-Cl B	64249	2010-11-01 at 09:32	74992	2010-11-03 at 14:10
Chloride (Titration)	SM 4500-Cl B	64249	2010-11-01 at 09:32	74993	2010-11-03 at 14:11
Chloride (Titration)	SM 4500-Cl B	64249	2010-11-01 at 09:32	74994	2010-11-03 at 14:11
Chloride (Titration)	SM 4500-Cl B	64249	2010-11-01 at 09:32	74995	2010-11-03 at 14:12
Chloride (Titration)	SM 4500-Cl B	64249	2010-11-01 at 09:32	74996	2010-11-03 at 14:13
TPH DRO - NEW	S 8015 D	64334	2010-11-01 at 13:25	75008	2010-11-01 at 15:34
TPH GRO	S 8015 D	64292	2010-11-01 at 11:00	74941	2010-11-01 at 13:45
TPH GRO	S 8015 D	64310	2010-11-02 at 10:15	74969	2010-11-02 at 10:57
TPH GRO	S 8015 D	64352	2010-11-03 at 10:15	75019	2010-11-03 at 12:31

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 10102933 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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Analytical Report

Sample: 249169 - AH-1 0-1'

Laboratory: Midland

Analysis: BTEX

QC Batch: 74940

Prep Batch: 64292

Analytical Method: S 8021B

Date Analyzed: 2010-11-01

Sample Preparation: 2010-11-01

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	Flag	Result	Units	Dilution	RL
Benzene		<0.100	mg/Kg	5	0.0200
Toluene		<0.100	mg/Kg	5	0.0200
Ethylbenzene		0.185	mg/Kg	5	0.0200
Xylene		0.516	mg/Kg	5	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.05	mg/Kg	5	5.00	101	66.5 - 148
4-Bromofluorobenzene (4-BFB)		5.83	mg/Kg	5	5.00	117	50 - 189

Sample: 249169 - AH-1 0-1'

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 74992

Prep Batch: 64249

Analytical Method: SM 4500-Cl B

Date Analyzed: 2010-11-03

Sample Preparation: 2010-11-01

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	Result	Units	Dilution	RL
Chloride		3420	mg/Kg	100	4.00

Sample: 249169 - AH-1 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 75008

Prep Batch: 64334

Analytical Method: S 8015 D

Date Analyzed: 2010-11-01

Sample Preparation: 2010-11-01

Prep Method: N/A

Analyzed By: kg

Prepared By: AG

Parameter	Flag	Result	Units	Dilution	RL
DRO		623	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	1	228	mg/Kg	1	100	228	70 - 130

Sample: 249169 - AH-1 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 74941
Prep Batch: 64292

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
GRO		166	mg/Kg	5	2.00
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery
Trifluorotoluene (TFT)		4.86	mg/Kg	5	5.00
4-Bromofluorobenzene (4-BFB)		5.64	mg/Kg	5	5.00
					97
					113
					73.4 - 122
					50 - 138

Sample: 249170 - AH-1 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2130	mg/Kg	100	4.00

Sample: 249171 - AH-1 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1720	mg/Kg	100	4.00

¹High surrogate recovery due to peak interference.

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Sample: 249172 - AH-1 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		890	mg/Kg	50	4.00

Sample: 249173 - AH-1 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		430	mg/Kg	50	4.00

Sample: 249174 - AH-1 5-5.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249175 - AH-1 6-6.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

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Sample: 249176 - AH-1 7-7.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	RL	Dilution	RL
Chloride		665	mg/Kg	50	4.00

Sample: 249177 - AH-2 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	RL	Dilution	RL
Chloride		573	mg/Kg	50	4.00

Sample: 249177 - AH-2 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 75008
Prep Batch: 64334

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		106	mg/Kg	1	100	106	70 - 130

Sample: 249177 - AH-2 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 74941
Prep Batch: 64292

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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Parameter	Flag	Result	Units	Dilution	RL		
GRO		<2.00	mg/Kg	1	2.00		
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)		1.67	mg/Kg	1	2.00	84	73.4 - 122
4-Bromofluorobenzene (4-BFB)		1.83	mg/Kg	1	2.00	92	50 - 138

Sample: 249178 - AH-2 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74992
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249179 - AH-2 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249180 - AH-2 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

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Sample: 249181 - AH-2 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249182 - AH-3 0-1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 74940
Prep Batch: 64292

Analytical Method: S 8021B
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.76	mg/Kg	1	2.00	88	66.5 - 148
4-Bromofluorobenzene (4-BFB)		1.89	mg/Kg	1	2.00	94	50 - 189

Sample: 249182 - AH-3 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

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Sample: 249182 - AH-3 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 75008
Prep Batch: 64334

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 249182 - AH-3 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 74941
Prep Batch: 64292

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.72	mg/Kg	1	2.00	86	73.4 - 122
4-Bromofluorobenzene (4-BFB)		1.77	mg/Kg	1	2.00	88	50 - 138

Sample: 249183 - AH-3 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

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Sample: 249184 - AH-3 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249185 - AH-3 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249186 - AH-3 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249187 - AH-4 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74993
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		311	mg/Kg	50	4.00

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Sample: 249187 - AH-4 0-1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-11-01	Analyzed By:	kg
QC Batch:	75008	Sample Preparation:	2010-11-01	Prepared By:	AG
Prep Batch:	64334				

Parameter	Flag	RL		Dilution	RL
		Result	Units		
DRO		<50.0	mg/Kg	1	50.0
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery
n-Tricosane		105	mg/Kg	100	70 - 130

Sample: 249187 - AH-4 0-1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-11-01	Analyzed By:	AG
QC Batch:	74941	Sample Preparation:	2010-11-01	Prepared By:	AG
Prep Batch:	64292				

Parameter	Flag	RL		Dilution	RL
		Result	Units		
GRO		<2.00	mg/Kg	1	2.00
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery
Trifluorotoluene (TFT)	2	1.16	mg/Kg	1	58
4-Bromofluorobenzene (4-BFB)		1.22	mg/Kg	1	61
					73.4 - 122
					50 - 138

Sample: 249188 - AH-4 1-1.5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-11-03	Analyzed By:	AR
QC Batch:	74993	Sample Preparation:	2010-11-01	Prepared By:	AR
Prep Batch:	64249				

Parameter	Flag	RL		Dilution	RL
		Result	Units		
Chloride		276	mg/Kg	50	4.00

²SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

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Sample: 249189 - AH-4 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249190 - AH-4 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249191 - AH-4 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249192 - AH-5 0-1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 75018
Prep Batch: 64352

Analytical Method: S 8021B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-03

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

Parameter	Flag	Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200

continued ...

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sample 249192 continued ...

Parameter	Flag	Result	Units	Dilution	RL		
Ethylbenzene		<0.0200	mg/Kg	1	0.0200		
Xylene		<0.0200	mg/Kg	1	0.0200		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	66.5 - 148
4-Bromofluorobenzene (4-BFB)		2.24	mg/Kg	1	2.00	112	50 - 189

Sample: 249192 - AH-5 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2190	mg/Kg	100	4.00

Sample: 249192 - AH-5 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 75008
Prep Batch: 64334

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		106	mg/Kg	1	100	106	70 - 130

Sample: 249192 - AH-5 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 75019
Prep Batch: 64352

Analytical Method: S 8015 D
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-03

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

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Parameter	Flag	Result	Units	Dilution	RL		
GRO		<2.00	mg/Kg	1	2.00		
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00	102	73.4 - 122
4-Bromofluorobenzene (4-BFB)		2.07	mg/Kg	1	2.00	104	50 - 138

Sample: 249193 - AH-5 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249194 - AH-5 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		815	mg/Kg	50	4.00

Sample: 249195 - AH-5 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		209	mg/Kg	50	4.00

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Sample: 249196 - AH-5 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		800	mg/Kg	50	4.00

Sample: 249197 - AH-5 5-5.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249198 - AH-5 6-6.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74994
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249199 - AH-6 0-1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 74966
Prep Batch: 64310

Analytical Method: S 8021B
Date Analyzed: 2010-11-02
Sample Preparation:

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

Parameter	Flag	Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		0.0392	mg/Kg	1	0.0200

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sample 249199 continued ...

Parameter	Flag	Result	Units	Dilution	RL
Ethylbenzene		0.129	mg/Kg	1	0.0200
Xylene		0.560	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	³	1.28	mg/Kg	1	2.00	64	66.5 - 148
4-Bromofluorobenzene (4-BFB)		1.51	mg/Kg	1	2.00	76	50 - 189

Sample: 249199 - AH-6 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		474	mg/Kg	50	4.00

Sample: 249199 - AH-6 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 75008
Prep Batch: 64334

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
DRO		149	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		123	mg/Kg	1	100	123	70 - 130

Sample: 249199 - AH-6 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 74969
Prep Batch: 64310

Analytical Method: S 8015 D
Date Analyzed: 2010-11-02
Sample Preparation:

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

³SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

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Parameter	Flag	Result	Units	Dilution	RL		
GRO		70.2	mg/Kg	1	2.00		
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)	4	1.29	mg/Kg	1	2.00	64	73.4 - 122
4-Bromofluorobenzene (4-BFB)		2.00	mg/Kg	1	2.00	100	50 - 138

Sample: 249200 - AH-6 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249201 - AH-6 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249202 - AH-6 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

⁴Surrogate out due to peak interference.

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Sample: 249203 - AH-6 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249204 - AH-7 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		357	mg/Kg	50	4.00

Sample: 249204 - AH-7 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 75008
Prep Batch: 64334

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		111	mg/Kg	1	100	111	70 - 130

Sample: 249204 - AH-7 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 74969
Prep Batch: 64310

Analytical Method: S 8015 D
Date Analyzed: 2010-11-02
Sample Preparation:

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

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Parameter	Flag	Result	Units	Dilution	RL		
GRO		<2.00	mg/Kg	1	2.00		
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)	⁵	1.24	mg/Kg	1	2.00	62	73.4 - 122
4-Bromofluorobenzene (4-BFB)		1.33	mg/Kg	1	2.00	66	50 - 138

Sample: 249205 - AH-7 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249206 - AH-7 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249207 - AH-7 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

⁵SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control.

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Sample: 249208 - AH-7 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74995
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249209 - AH-8 0-1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 74966
Prep Batch: 64310

Analytical Method: S 8021B
Date Analyzed: 2010-11-02
Sample Preparation:

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	6	1.24	mg/Kg	1	2.00	62	66.5 - 148
4-Bromofluorobenzene (4-BFB)		1.42	mg/Kg	1	2.00	71	50 - 189

Sample: 249209 - AH-8 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		833	mg/Kg	50	4.00

⁶SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

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Sample: 249209 - AH-8 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 75008
Prep Batch: 64334

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		105	mg/Kg	1	100	105	70 - 130

Sample: 249209 - AH-8 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 74969
Prep Batch: 64310

Analytical Method: S 8015 D
Date Analyzed: 2010-11-02
Sample Preparation:

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

Parameter	Flag	Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	1	2.00	82	73.4 - 122
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1	2.00	88	50 - 138

Sample: 249210 - AH-8 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

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Sample: 249211 - AH-8 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249212 - AH-8 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249213 - AH-8 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249214 - AH-9 0-1' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

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Sample: 249214 - AH-9 0-1' 1' BEB

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 75008
Prep Batch: 64334

Analytical Method: S 8015 D
Date Analyzed: 2010-11-01
Sample Preparation: 2010-11-01

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

Sample: 249214 - AH-9 0-1' 1' BEB

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 74969
Prep Batch: 64310

Analytical Method: S 8015 D
Date Analyzed: 2010-11-02
Sample Preparation:

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

Parameter	Flag	Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	7	1.02	mg/Kg	1	2.00	51	73.4 - 122
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	2.00	55	50 - 138

Sample: 249215 - AH-9 1-1.5' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

⁷SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

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Sample: 249216 - AH-9 2-2.5' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249217 - AH-9 3-3.5' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Sample: 249218 - AH-9 4-4.5' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 74996
Prep Batch: 64249

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-01

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

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

Method Blank (1) QC Batch: 74940

QC Batch: 74940
Prep Batch: 64292

Date Analyzed: 2010-11-01
QC Preparation: 2010-11-01

Analyzed By: AG
Prepared By: AG

Parameter	Flag	Result	MDL	Units	RL
Benzene		<0.00750		mg/Kg	0.02
Toluene		<0.0109		mg/Kg	0.02
Ethylbenzene		<0.00630		mg/Kg	0.02

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method blank continued ...

Parameter	Flag	MDL Result	Units		RL
Xylene		<0.0144	mg/Kg		0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	75.6 - 110
4-Bromofluorobenzene (4-BFB)		2.23	mg/Kg	1	2.00	112	41.5 - 139

Method Blank (1) QC Batch: 74941

QC Batch: 74941 Date Analyzed: 2010-11-01 Analyzed By: AG
Prep Batch: 64292 QC Preparation: 2010-11-01 Prepared By: AG

Parameter	Flag	MDL Result	Units		RL
GRO		<0.747	mg/Kg		2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/Kg	1	2.00	104	76.9 - 115
4-Bromofluorobenzene (4-BFB)		2.07	mg/Kg	1	2.00	104	45.8 - 147

Method Blank (1) QC Batch: 74966

QC Batch: 74966 Date Analyzed: 2010-11-02 Analyzed By: AG
Prep Batch: 64310 QC Preparation: 2010-11-02 Prepared By: AG

Parameter	Flag	MDL Result	Units		RL
Benzene		<0.00750	mg/Kg		0.02
Toluene		<0.0109	mg/Kg		0.02
Ethylbenzene		<0.00630	mg/Kg		0.02
Xylene		<0.0144	mg/Kg		0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.98	mg/Kg	1	2.00	99	75.6 - 110
4-Bromofluorobenzene (4-BFB)		2.20	mg/Kg	1	2.00	110	41.5 - 139

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Method Blank (1) QC Batch: 74969

QC Batch: 74969 Date Analyzed: 2010-11-02
Prep Batch: 64310 QC Preparation: 2010-11-02 Analyzed By: AG
 Prepared By: AG

Parameter	Flag	MDL		Units	RL
		Result	<0.747		
Surrogate				mg/Kg	2
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00
4-Bromofluorobenzene (4-BFB)		2.02	mg/Kg	1	2.00
				Percent Recovery	Recovery Limits
				102	76.9 - 115
				101	45.8 - 147

Method Blank (1) QC Batch: 74992

QC Batch: 74992 Date Analyzed: 2010-11-03
Prep Batch: 64249 QC Preparation: 2010-11-01 Analyzed By: AR
 Prepared By: AR

Parameter	Flag	MDL		Units	RL
		Result	<2.18		
Chloride				mg/Kg	4

Method Blank (1) QC Batch: 74993

QC Batch: 74993 Date Analyzed: 2010-11-03
Prep Batch: 64249 QC Preparation: 2010-11-01 Analyzed By: AR
 Prepared By: AR

Parameter	Flag	MDL		Units	RL
		Result	<2.18		
Chloride				mg/Kg	4

Method Blank (1) QC Batch: 74994

QC Batch: 74994 Date Analyzed: 2010-11-03
Prep Batch: 64249 QC Preparation: 2010-11-01 Analyzed By: AR
 Prepared By: AR

Parameter	Flag	MDL		Units	RL
		Result	<2.18		
Chloride				mg/Kg	4

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Method Blank (1) QC Batch: 74995

QC Batch: 74995 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 74996

QC Batch: 74996 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 75008

QC Batch: 75008 Date Analyzed: 2010-11-01 Analyzed By: kg
Prep Batch: 64334 QC Preparation: 2010-11-01 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

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

Method Blank (1) QC Batch: 75018

QC Batch: 75018 Date Analyzed: 2010-11-03 Analyzed By: AG
Prep Batch: 64352 QC Preparation: 2010-11-03 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00750	mg/Kg	0.02
Toluene		<0.0109	mg/Kg	0.02
Ethylbenzene		<0.00630	mg/Kg	0.02
Xylene		<0.0144	mg/Kg	0.02

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	75.6 - 110
4-Bromofluorobenzene (4-BFB)		2.22	mg/Kg	1	2.00	111	41.5 - 139

Method Blank (1) QC Batch: 75019

QC Batch: 75019 Date Analyzed: 2010-11-03 Analyzed By: AG
Prep Batch: 64352 QC Preparation: 2010-11-03 Prepared By: AG

Parameter	Flag	MDL		Units mg/Kg	RL
GRO		Result	<0.747		

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.05	mg/Kg	1	2.00	102	76.9 - 115
4-Bromofluorobenzene (4-BFB)		2.04	mg/Kg	1	2.00	102	45.8 - 147

Laboratory Control Spike (LCS-1)

QC Batch: 74940 Date Analyzed: 2010-11-01 Analyzed By: AG
Prep Batch: 64292 QC Preparation: 2010-11-01 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.97	mg/Kg	1	2.00	<0.00750	98	81.7 - 120
Toluene	1.94	mg/Kg	1	2.00	<0.0109	97	81.8 - 120
Ethylbenzene	1.98	mg/Kg	1	2.00	<0.00630	99	79.8 - 120
Xylene	6.06	mg/Kg	1	6.00	<0.0144	101	74 - 123

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.00	mg/Kg	1	2.00	<0.00750	100	81.7 - 120	2	20
Toluene	1.94	mg/Kg	1	2.00	<0.0109	97	81.8 - 120	0	20
Ethylbenzene	2.00	mg/Kg	1	2.00	<0.00630	100	79.8 - 120	1	20
Xylene	6.11	mg/Kg	1	6.00	<0.0144	102	74 - 123	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.98	1.79	mg/Kg	1	2.00	99	90	77.4 - 110

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.3	mg/Kg	1	100	<2.18	97	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	RPD Limit	
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 74994 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.1	mg/Kg	1	100	<2.18	97	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	RPD Limit	
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 74995 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.2	mg/Kg	1	100	<2.18	97	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	RPD Limit	
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 74996 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.6	mg/Kg	1	100	<2.18	97	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 75008 Date Analyzed: 2010-11-01 Analyzed By: kg
Prep Batch: 64334 QC Preparation: 2010-11-01 Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	230	mg/Kg	1	250	<14.6	92	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	224	mg/Kg	1	250	<14.6	90	47.5 - 144.1	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	121	119	mg/Kg	1	100	121	119	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 75018 Date Analyzed: 2010-11-03 Analyzed By: AG
Prep Batch: 64352 QC Preparation: 2010-11-03 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.97	mg/Kg	1	2.00	<0.00750	98	81.7 - 120
Toluene	1.92	mg/Kg	1	2.00	<0.0109	96	81.8 - 120
Ethylbenzene	1.93	mg/Kg	1	2.00	<0.00630	96	79.8 - 120
Xylene	5.90	mg/Kg	1	6.00	<0.0144	98	74 - 123

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

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control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.00	mg/Kg	1	2.00	<0.00750	100	81.7 - 120	2	20
Toluene	1.94	mg/Kg	1	2.00	<0.0109	97	81.8 - 120	1	20
Ethylbenzene	1.97	mg/Kg	1	2.00	<0.00630	98	79.8 - 120	2	20
Xylene	6.03	mg/Kg	1	6.00	<0.0144	100	74 - 123	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.88	1.90	mg/Kg	1	2.00	94	95	77.4 - 110
4-Bromofluorobenzene (4-BFB)	2.16	2.17	mg/Kg	1	2.00	108	108	46 - 140

Laboratory Control Spike (LCS-1)

QC Batch: 75019 Date Analyzed: 2010-11-03 Analyzed By: AG
Prep Batch: 64352 QC Preparation: 2010-11-03 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	18.7	mg/Kg	1	20.0	<0.747	94	56.5 - 98.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	RPD Limit	
GRO	19.3	mg/Kg	1	20.0	<0.747	96	56.5 - 98.2	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.97	1.90	mg/Kg	1	2.00	98	95	76.5 - 118
4-Bromofluorobenzene (4-BFB)	2.07	2.00	mg/Kg	1	2.00	104	100	51.1 - 150

Matrix Spike (MS-1) Spiked Sample: 249164

QC Batch: 74940 Date Analyzed: 2010-11-01 Analyzed By: AG
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matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.38	mg/Kg	1	2.00	<0.00750	119	75.7 - 125
Toluene	2.37	mg/Kg	1	2.00	<0.0109	118	74.4 - 125
Ethylbenzene	⁸ 2.89	mg/Kg	1	2.00	<0.00630	144	72.2 - 128
Xylene	7.78	mg/Kg	1	6.00	<0.0144	130	63 - 131

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	RPD	RPD Limit
Benzene	1.98	mg/Kg	1	2.00	<0.00750	99	75.7 - 125	18 20
Toluene	1.96	mg/Kg	1	2.00	<0.0109	98	74.4 - 125	19 20
Ethylbenzene	⁹ 2.07	mg/Kg	1	2.00	<0.00630	104	72.2 - 128	33 20
Xylene	¹⁰ 6.32	mg/Kg	1	6.00	<0.0144	105	63 - 131	21 20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	¹¹ 1.80	1.48	mg/Kg	1	2	90	74	78.8 - 109
4-Bromofluorobenzene (4-BFB)	2.02	1.66	mg/Kg	1	2	101	83	50 - 136

Matrix Spike (MS-1) Spiked Sample: 249127

QC Batch: 74941 Date Analyzed: 2010-11-01 Analyzed By: AG
Prep Batch: 64292 QC Preparation: 2010-11-01 Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	15.2	mg/Kg	1	20.0	<0.747	76	50 - 150

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	RPD Limit
GRO	¹² 19.0	mg/Kg	1	20.0	<0.747	95	50 - 150	22 20

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

⁸Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

¹¹Surrogate out due to peak interference.

¹²MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

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Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	¹³ 0.954	1.18	mg/Kg	1	2	48	59	71.6 - 117
4-Bromofluorobenzene (4-BFB)	1.12	1.30	mg/Kg	1	2	56	65	50 - 170

Matrix Spike (MS-1) Spiked Sample: 249293

QC Batch: 74966
Prep Batch: 64310

Date Analyzed: 2010-11-02
QC Preparation: 2010-11-02

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.39	mg/Kg	1	2.00	<0.00750	120	75.7 - 125
Toluene	2.36	mg/Kg	1	2.00	<0.0109	118	74.4 - 125
Ethylbenzene	2.45	mg/Kg	1	2.00	<0.00630	122	72.2 - 128
Xylene	7.48	mg/Kg	1	6.00	<0.0144	125	63 - 131

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Limit	
Benzene	1.99	mg/Kg	1	2.00	<0.00750	100	75.7 - 125	18	20
Toluene	1.97	mg/Kg	1	2.00	<0.0109	98	74.4 - 125	18	20
Ethylbenzene	2.06	mg/Kg	1	2.00	<0.00630	103	72.2 - 128	17	20
Xylene	6.31	mg/Kg	1	6.00	<0.0144	105	63 - 131	17	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	¹⁵ 0.884	1.46	mg/Kg	1	2	44	73	78.8 - 109
4-Bromofluorobenzene (4-BFB)	1.02	1.65	mg/Kg	1	2	51	82	50 - 136

Matrix Spike (MS-1) Spiked Sample: 249241

QC Batch: 74969
Prep Batch: 64310

Date Analyzed: 2010-11-02
QC Preparation: 2010-11-02

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	18.7	mg/Kg	1	20.0	<0.747	94	50 - 150

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

¹³Surrogate out due to peak interference.

¹⁴Surrogate out due to peak interference.

¹⁵Surrogate out due to peak interference. •

¹⁶Surrogate out due to peak interference.

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Matrix Spike (MS-1) Spiked Sample: 249198

QC Batch: 74994 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9770	mg/Kg	100	10000	<218	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Limit	
Chloride	9940	mg/Kg	100	10000	<218	99	85 - 115	2	20

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

Matrix Spike (MS-1) Spiked Sample: 249208

QC Batch: 74995 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	mg/Kg	100	10000	<218	101	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Limit	
Chloride	10300	mg/Kg	100	10000	<218	103	85 - 115	2	20

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

Matrix Spike (MS-1) Spiked Sample: 249218

QC Batch: 74996 Date Analyzed: 2010-11-03 Analyzed By: AR
Prep Batch: 64249 QC Preparation: 2010-11-01 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9670	mg/Kg	100	10000	<218	97	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Limit	
Chloride	10000	mg/Kg	100	10000	<218	100	85 - 115	3	20

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

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Standard (CCV-2)

QC Batch: 74941 Date Analyzed: 2010-11-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.18	118	80 - 120	2010-11-01

Standard (CCV-3)

QC Batch: 74941 Date Analyzed: 2010-11-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.13	113	80 - 120	2010-11-01

Standard (CCV-1)

QC Batch: 74966 Date Analyzed: 2010-11-02 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0984	98	80 - 120	2010-11-02
Toluene		mg/Kg	0.100	0.0964	96	80 - 120	2010-11-02
Ethylbenzene		mg/Kg	0.100	0.0984	98	80 - 120	2010-11-02
Xylene		mg/Kg	0.300	0.301	100	80 - 120	2010-11-02

Standard (CCV-2)

QC Batch: 74966 Date Analyzed: 2010-11-02 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0967	97	80 - 120	2010-11-02
Toluene		mg/Kg	0.100	0.0937	94	80 - 120	2010-11-02
Ethylbenzene		mg/Kg	0.100	0.0944	94	80 - 120	2010-11-02
Xylene		mg/Kg	0.300	0.289	96	80 - 120	2010-11-02

Standard (CCV-1)

QC Batch: 74969 Date Analyzed: 2010-11-02 Analyzed By: AG

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.12	112	80 - 120	2010-11-02

Standard (CCV-2)

QC Batch: 74969 Date Analyzed: 2010-11-02 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.13	113	80 - 120	2010-11-02

Standard (ICV-1)

QC Batch: 74992 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.9	99	85 - 115	2010-11-03

Standard (CCV-1)

QC Batch: 74992 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-11-03

Standard (ICV-1)

QC Batch: 74993 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-11-03

Standard (CCV-1)

QC Batch: 74993 Date Analyzed: 2010-11-03 Analyzed By: AR

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2010-11-03

Standard (ICV-1)

QC Batch: 74994 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2010-11-03

Standard (CCV-1)

QC Batch: 74994 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-11-03

Standard (ICV-1)

QC Batch: 74995 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-11-03

Standard (CCV-1)

QC Batch: 74995 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.0	99	85 - 115	2010-11-03

Standard (ICV-1)

QC Batch: 74996 Date Analyzed: 2010-11-03 Analyzed By: AR

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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2010-11-03

Standard (CCV-1)

QC Batch: 74996 Date Analyzed: 2010-11-03 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-11-03

Standard (CCV-1)

QC Batch: 75008 Date Analyzed: 2010-11-01 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	244	98	80 - 120	2010-11-01

Standard (CCV-2)

QC Batch: 75008 Date Analyzed: 2010-11-01 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	213	85	80 - 120	2010-11-01

Standard (CCV-3)

QC Batch: 75008 Date Analyzed: 2010-11-01 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	213	85	80 - 120	2010-11-01

Standard (CCV-1)

QC Batch: 75018 Date Analyzed: 2010-11-03 Analyzed By: AG

Report Date: November 9, 2010
114-6400716

Work Order: 10102933
COG/JC Fed. #19

Page Number: 46 of 46
Lea Co., NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.103	103	80 - 120	2010-11-03
Toluene		mg/Kg	0.100	0.100	100	80 - 120	2010-11-03
Ethylbenzene		mg/Kg	0.100	0.102	102	80 - 120	2010-11-03
Xylene		mg/Kg	0.300	0.312	104	80 - 120	2010-11-03

Standard (CCV-2)

QC Batch: 75018 Date Analyzed: 2010-11-03 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0945	94	80 - 120	2010-11-03
Toluene		mg/Kg	0.100	0.0914	91	80 - 120	2010-11-03
Ethylbenzene		mg/Kg	0.100	0.0911	91	80 - 120	2010-11-03
Xylene		mg/Kg	0.300	0.278	93	80 - 120	2010-11-03

Standard (CCV-1)

QC Batch: 75019 Date Analyzed: 2010-11-03 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.14	114	80 - 120	2010-11-03

Standard (CCV-2)

QC Batch: 75019 Date Analyzed: 2010-11-03 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.11	111	80 - 120	2010-11-03

XW# 1d102933

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

PAGE: 1

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ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG			SITE MANAGER: JK Tovarez			ANALYSIS REQUEST (Circle or Specify Method No.)																						
PROJECT NO.: 114-640071L			PROJECT NAME: COG / JC Fed # 14			NUMBER OF CONTAINERS	PRESERVATIVE METHOD																					
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB			HCl	HNO3	ICE	NONE	TPEX 8011B	TPH 8015 MOD	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/8098	Pest. 8084/808	(Chloroform)	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
2491109	10/25	2010	S	X	AH-1	0-1'			X		X																	
170					AH-1	1-1.5'																						
171					AH-1	2-2.5'																						
172					AH-1	3'-3.5'																						
173					AH-1	4'-4.5'																						
174					AH-1	5'-5.5'																						
175					AH-1	6'-6.5'																						
176					AH-1	7'-7.5'																						
177					AH-2	0-1'																						
178					AH-2	1-1.5'																						
RELINQUISHED BY: (Signature)			Date: 10/24/10 Time: 1:00			RECEIVED BY: (Signature)			Date: 10/24/10 Time: 1:00			SAMPLED BY: (Print & Initial)			Date: 10/25/10 Time: 11:00													
RELINQUISHED BY: (Signature)			Date: _____ Time: _____			RECEIVED BY: (Signature)			Date: _____ Time: _____			SAMPLE SHIPPED BY: (Circle)			AIRBILL #: _____													
RELINQUISHED BY: (Signature)			Date: _____ Time: _____			RECEIVED BY: (Signature)			Date: _____ Time: _____			FEDEX <input checked="" type="checkbox"/> BUS <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> (HAND DELIVERED) <input type="checkbox"/> OTHER: _____																
RECEIVING LABORATORY: TRACY ADDRESS: Midland STATE: TX ZIP: _____ CONTACT: PHONE: _____ DATE: _____ TIME: _____												TETRA TECH CONTACT PERSON: JK Tovarez			Results by:													
SAMPLE CONDITION WHEN RECEIVED: 3.5°C intact												REMARKS: If total TPH exceeds 100 mg/kg, run deeper samples			Run BTEx on 5 highest TPH. If total BTEx exceeds 50 mg/kg or Brine sample 10 mg/kg run deeper samples			RUSH Charges Authorized: Yes No										

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

XAll tests Midland

DWOT# 10102933

Analysis Request of Chain of Custody Record

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

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ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG			SITE MANAGER: Jke Tavares			NUMBER OF CONTAINERS	PRESERVATIVE METHOD			TESTS	METHOD			
PROJECT NO.: 114-L400716			PROJECT NAME: COG/ JC Fnd = 14 Lm Co., NM				FILTERED (Y/N)	HCL	HNO3			ICE	NONE	
LAB I.D. NUMBER	DATE 2016	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION								
24977	10/25		S	X		AH-2	2-25'		X			BTEX 8021B		
180						AH-2	3-35'					TPH 8016 MOD TTX006 (Ext. to C35)		
181						AH-2	4-45'					PAN 8270		
182						AH-3	0-1'					ICP/MS Metals Ag As Ba Cd Cr Pb Hg Se		
183						AH-3	1-1.5'					TCLP Volatiles		
184						AH-3	2-25'					RCH	GC/MS Vol. 8240/8280/824	
185						AH-3	3-35'					GC/MS Semi. Vol. 8270/825		
186						AH-3	4-4.5'					PCB's 8080/8098		
187						AH-4	0-1'					Pest. 805/808		
188						AH-4	1-1.5'					Chloride		
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)			Date:	10/25/16	SAMPLED BY: (Print & Initial)			JTF	Date: 10/25/16		
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)			Date:	11/10	Time:				Time:		
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)			Date:		Time:						
RECEIVING LABORATORY: TETRA TECH			RECEIVED BY: (Signature)			Date:		Time:						
ADDRESS: Midland			RECEIVED BY: (Signature)			Date:		Time:						
CITY: Midland STATE: TX ZIP: 79705			RECEIVED BY: (Signature)			Date:		Time:						
CONTACT: PHONE: DATE: TIME:			RECEIVED BY: (Signature)			Date:		Time:						
SAMPLE CONDITION WHEN RECEIVED: 35°C intact			REMARKS: If total TPH exceeds 1,000 mg/kg run dilute samples / Benzene exceeds 10 mg/kg run dilute samples			Run BTEX on 5 highest TPH. If total BTEX exceeds 50 mg/kg or								

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

XLW #10102933

Analysis Request of Chain of Custody Record

**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

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ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: ECG			SITE MANAGER: Ike Tovarez			NUMBER OF CONTAINERS 1	FILTERED (Y/N) HCl	PRESERVATIVE METHOD		
LAB I.D. NUMBER	DATE 2010	TIME	MATRIX COMB GRAB	PROJECT NAME: ECG 1 JC Frd # 19 Loc C NM	SAMPLE IDENTIFICATION			HNO3	ICE	NONE
249189	10/25		S X	AH-4 2'-2.5'			X			
190				AH-4 3'-3.5'						
191				AH-4 4'-4.5'						
192				AH-5 0'-1'			X			
193				AH-5 1'-1.5'						
194				AH-5 2'-2.5'						
195				AH-5 3'-3.5'						
196				AH-5 4'-4.5'						
197				AH-5 5'-5.5'						
198				AH-5 6'-6.5'						

RELINQUISHED BY: (Signature)	Date: 10/27/10	RECEIVED BY: (Signature)	Date: 10/29/10	SAMPLED BY: (Print & Initial)	Date: 10/29/10
	Time: 1:40		Time: 11:00	JT / TF	Time:
RELINQUISHED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	SAMPLE SHIPPED BY: (Circle)	
				FEDEX	AIRBILL #:
RELINQUISHED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	BUS	
				AND DELIVERED	OTHER:
				UPS	
				TETRA TECH CONTACT PERSON:	
				Ike Tovarez	Results by:
RECEIVING LABORATORY: <i>Tech</i>	RECEIVED BY: (Signature)				
ADDRESS: <i>Midland</i>	STATE: <i>TX</i>	ZIP: <i>79705</i>	PHONE: <i>(432) 682-3946</i>	DATE: <i>10/27/10</i>	TIME: <i>1:40</i>
SAMPLE CONDITION WHEN RECEIVED: <i>3.5°C intact</i>	REMARKS: If total TPH exceeds 1,000 mg/kg run deeper samples / Run BTEX on 5 highest TPH. If total BTEX exceeds 50 mg/kg - Benzene exceeds 10 mg/kg run deeper samples.				

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

XWC# 1002933

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

PAGE: 4

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ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: LOG				SITE MANAGER: JRC Tovarez				NUMBER OF CONTAINERS	PRESERVATIVE METHOD			TESTED	METHOD	SPECIMEN
PROJECT NO.: 114-6406716		PROJECT NAME: Log / JLC Fd # 19		SAMPLE IDENTIFICATION			FILTERED (Y/N)		HCl	HNO3	ICE			
LAB I.D. NUMBER	DATE 2010	TIME	MATRIX COMP.	GRAB										
249199	10/25		S	X	AH-L	0-1'					X			
200					AH-L	1-1.5'								
201					AH-L	2-2.5'								
202					AH-L	3-3.5'								
203					AH-L	4-4.5'								
204					AH-T	0-1'						X		
205					AH-T	1-1.5'								
206					AH-T	2-2.5'								
207					AH-T	3-3.5'								
208					AH-T	4-4.5'								
RELINQUISHED BY: (Signature) JRC				RECEIVED BY: (Signature) JRC				SAMPLER BY: (Print & Initial) JRC			Date: 10/29/10			
RELINQUISHED BY: (Signature) JRC				RECEIVED BY: (Signature) JRC				Date: 10/29/10			Time: 11:00			
RELINQUISHED BY: (Signature) JRC				RECEIVED BY: (Signature) JRC				Date: 10/29/10			Time: 11:00			
RECEIVING LABORATORY: TETRA ADDRESS: Midland CITY: Midland STATE: TX ZIP: 79705 CONTACT: JRC Tovarez				RECEIVED BY: (Signature) JRC				TIME: 11:00			SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS OTHER: Hand Delivered			
SAMPLE CONDITION WHEN RECEIVED: 3.5°C intact				REMARKS: If total TPH exceeds 1,000 mg/kg run deeper samples				If total BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples			AIRBILL #: _____			
Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.												RUSH Charges Authorized: Yes No		

XW# 10102933

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

PAGE: 5

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG				SITE MANAGER: Ike Tavarez				ANALYSIS REQUEST (Circle or Specify Method No.)																
PROJECT NO.: 11-1-L4C00716			PROJECT NAME: COG / JC Frd #19			NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD																
LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP.	GRAB			HCl	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD TX1006 (Ext. to C35)	PAH 8270	ICRA Metals Ag As Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	PCBs 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
219209	10/25		(S)	X		AH-B	0-1'			1	X	X								X				
210	/					AH-B	1-1.5'																	
211						AH-B	2-2.5'																	
212						AH-B	3-3.5'																	
213						AH-B	4-4.5'																	
214						AH-B	0-1' 1' BEB									X								
215						AH-B	1-1.5' 1' BEB																	
216						AH-B	2-2.5' 1' BEB																	
217						AH-B	3-3.5' 1' BEB																	
218						AH-B	4-4.5' 1' BEB																	
RELINQUISHED BY: (Signature) <i>Ike Tavarez</i>				Date: 10/29/10	RECEIVED BY: (Signature) <i>SJ</i>	Date: 10/29/10	SAMPLED BY: (Print & Initial) <i>JL TF</i>	Date: 10/29/10																
				Time: 11:00		Time: 11:30		Time:																
RELINQUISHED BY: (Signature)				Date:	RECEIVED BY: (Signature)	Date:	SAMPLE SHIPPED BY: (Circle)	AIRBILL #:																
				Time:		Time:	FEDEX BUS																	
RELINQUISHED BY: (Signature)				Date:	RECEIVED BY: (Signature)	Date:	HAND DELIVERED UPS	OTHER:																
				Time:		Time:																		
RECEIVING LABORATORY: <i>Tetra Tech</i>				RECEIVED BY: (Signature)				TETRA TECH CONTACT PERSON: <i>Ike Tavarez</i>		Results by:														
ADDRESS: <i>Midland</i>																								
CITY: <i>Midland</i> STATE: <i>TX</i> ZIP: <i>79705</i>				DATE: <i>10/29/10</i> TIME: <i>11:30</i>						RUSH Charges Authorized: Yes No														
CONTACT: <i>PHONE: 432-682-3946</i>																								
SAMPLE CONDITION WHEN RECEIVED: <i>3.5c intact</i>				REMARKS: <i>If total TPH exceeds 1,000 mg/kg run deeper samples / Run BTEX on 5 highest TPH If total BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples</i>																				

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

APPENDIX C

District I
 1625 N. French Dr., Hobbs, NM 88240
District II
 1301 W. Grand Avenue, Artesia, NM 88210
District III
 1000 Rio Brazos Road, Aztec, NM 87410
District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy Minerals and Natural Resources
 Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report

Final Repo

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	JC Federal #19	Facility Type	Well

Surface Owner	Federal	Mineral Owner	Lease No. (API#) 30-025-38995
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	22	17S	32E	2160	North	2310	East	Lea

Latitude 32 49.288 Longitude 103 45.195

NATURE OF RELEASE

Type of Release	Produced fluid (oil and water)	Volume of Release	15bbls	Volume Recovered	12bbls
Source of Release	Stuffing box	Date and Hour of Occurrence	10/10/2010	Date and Hour of Discovery	10/10/2010 6:00 a.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

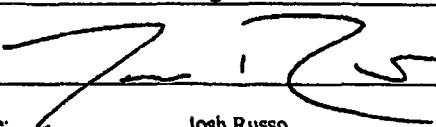
Describe Cause of Problem and Remedial Action Taken.*

The stuffing box bolts were loose which allowed fluid to be released as the well pressured up. The stuffing box has been re-packed and the backpressure assembly has been cleaned.

Describe Area Affected and Cleanup Action Taken.*

Initially 15bbls of produced fluid was released from the stuffing box and we were able to recover 12bbls with a vacuum truck. The dimensions of the spill area measured 10 yards wide x 50 yards long to the south, east, and west of the well on the location. Also, to the east of the well pad a 3' x 30' stream went into the pasture. (The release consisted of oil and produced water, 9bbls of oil and 6bbls of produced water). The chloride concentration of the produced water is 135,000 mg/l. 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 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: Printed Name: Josh Russo		<u>OIL CONSERVATION DIVISION</u>	
		Approved by District Supervisor:	
Title:	HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address:	jrusso@conchoresources.com	Conditions of Approval:	
Date:	10/15/2010	Phone:	432-212-2399
Attached <input type="checkbox"/>			

* Attach Additional Sheets If Necessary