TETRA TECH

October 6, 2009

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

Re: Work Plan for the COG Operating LLC., RJU Unit #119, Injection line leak, Unit P, Section 27, Township 17 South, Range 29 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the RJU #119 located in Unit P, Section 27, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.80042°, W 104.05663°. 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 May 30, 2009. Approximately 200 barrels of produced water was released from a hole on a 2-inch injection line. The 2 inch poly line was repaired with new connections. Vacuum trucks were utilized to recover 150 barrels of standing fluids. The initial C-141 is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 27. An abandoned water well was located in Section 35 and measured a total depth of 153' (dry). According to the Geology and Groundwater Resources of Eddy County, New Mexico (Report 3), one well is located in Section 22 (Bear Grass Draw) with a depth to water of 79.0' below surface. In addition, a well located in Section 29 was reported at 210 below surface. According to the NMOCD groundwater map the average depth to groundwater in this area is approximately 150' below surface. The Geology and Groundwater Resources of Eddy County, New Mexico (Report 3) well report data is shown in Appendix B.

Tetra Tech
1910 North Big Spring Midland,TX 79705
Tel 432 682 4559 Fax 432 682 3946 www.tetratech.com

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 Results

On June 4, 2009, Tetra Tech personnel inspected the spill area, which measured approximately 40' x 205' and 10' x 100', located west of the County Road. Prior to sampling, COG excavated 1.0' to 2.0' of impacted soil and hauled to proper disposal. A total of 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 D. The results of the sampling are summarized in Table 1.

Referring to Table 1, AH-1 and AH-2 samples exceeded the TPH RRAL to a depth of 2.0' below surface. In addition, the total BTEX exceeded the RRAL in AH-1 and AH-2. Elevated chloride concentrations were detected in all of the auger holes, with no chlorides delineated in any of the auger holes.

In order to complete delineation of the chlorides at the sites, on June 30, 2009, Tetra Tech personnel were onsite to install ten (10) boreholes (SB-1 through SB-10) utilizing an air rotary rig. Some of the borings were installed in the vicinity of the previous auger holes. The boreholes were extended to a maximum depth of 15 to 35 feet bgs with samples collected at 2 to 3 foot intervals for the first 15 feet and 5 foot intervals thereafter and submitted to the laboratory for analysis of chlorides and selected samples for BTEX.

Analytical results indicate the maximum extent of chloride impact greater than 1,000 mg/kg extended from 11 feet (SB-2) to 30 feet (SB-1) bgs. All samples had chloride concentrations that decreased with depth. Borehole logs are included in Appendix C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The borehole and auger hole locations are shown on Figure 3.

Work Plan

Based upon the corrective action discussion with the NMOCD on July 27, 2009, Tetra Tech personnel will supervise the removal of impacted soils for proper disposal. In addition, selected excavated areas will be capped (lined) with a 40 mil plastic liner.

TETRA TECH

Once the areas are excavated to the appropriate depths, the excavation will be backfilled with clean soil. The liner will be installed at a depth of 4.0' below surface. The depths of the excavations and liner installation areas are shown on Figure 4. Two lines are located in the area of spill/excavation. The active line (Conoco) is running east and west through the center of the spill area and an abandoned line (DCP) runs north and south through the spill. These areas will need to be cleared prior to excavating around the lines.

If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavarez, P.G.
Senior Project Manager

cc: Pat Ellis – COG

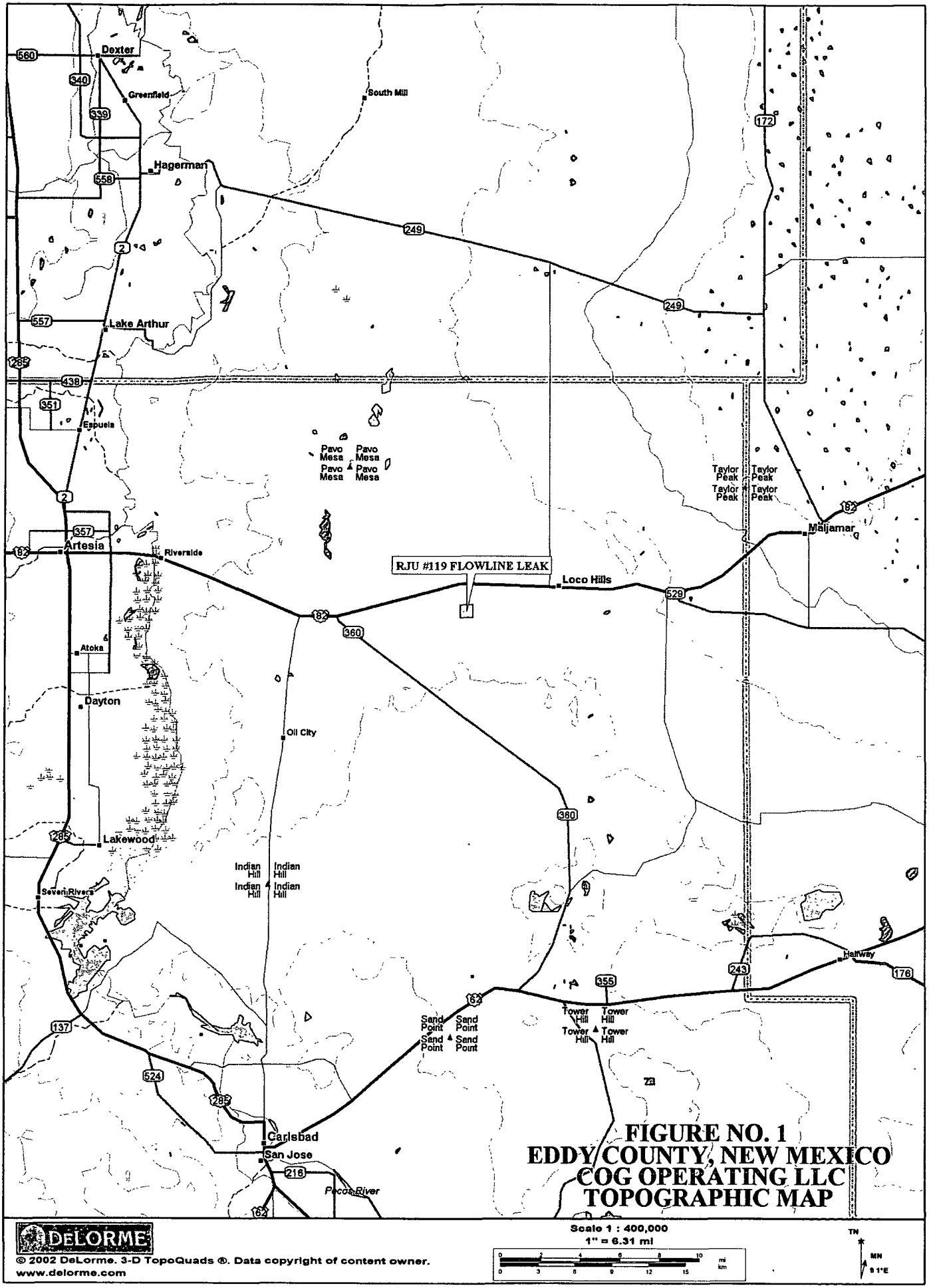


FIGURE NO. 1
EDDY COUNTY, NEW MEXICO
COG OPERATING LLC
TOPOGRAPHIC MAP

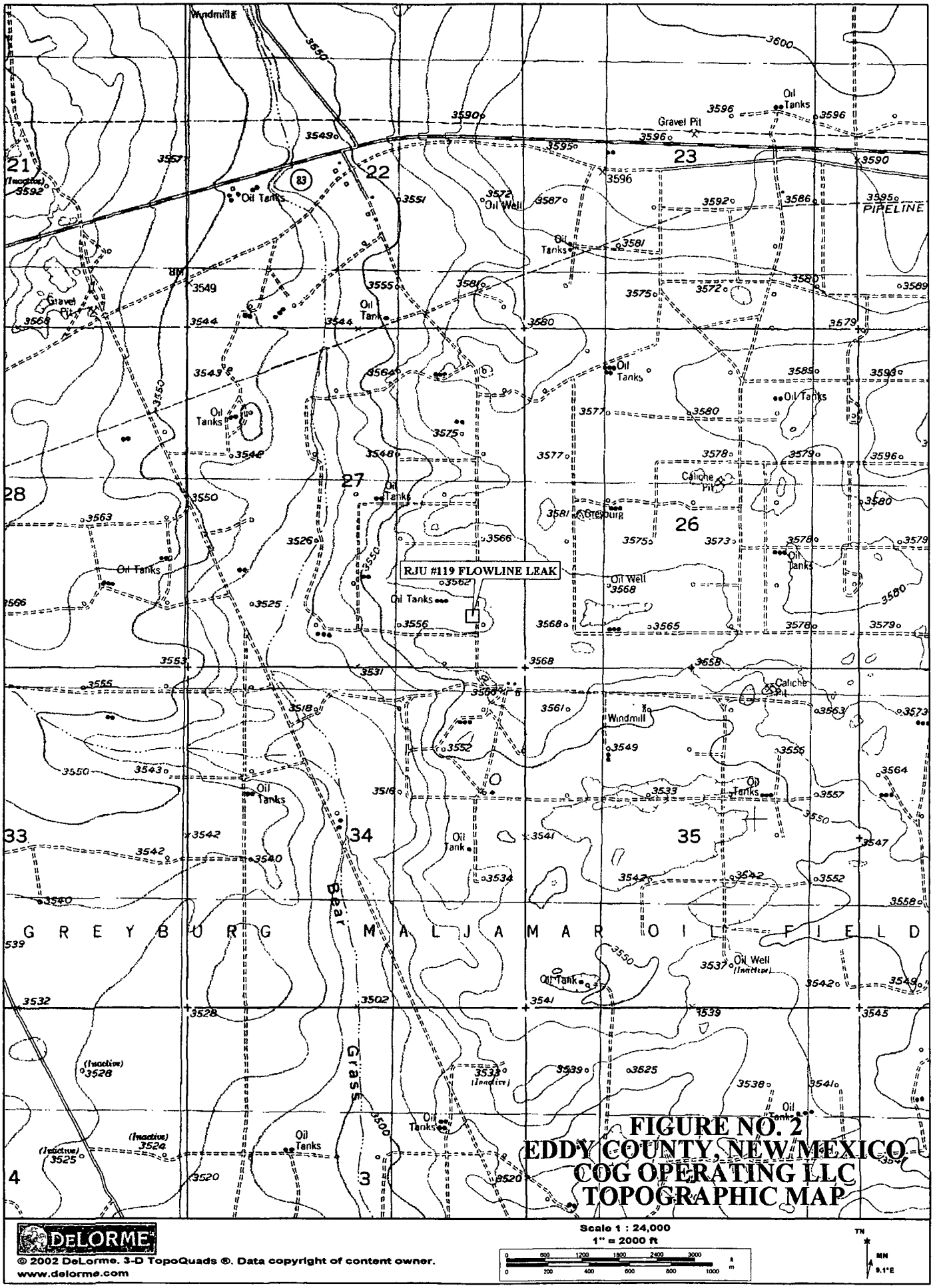


FIGURE NO. 2
EDDY COUNTY, NEW MEXICO
COG OPERATING LLC
TOPOGRAPHIC MAP

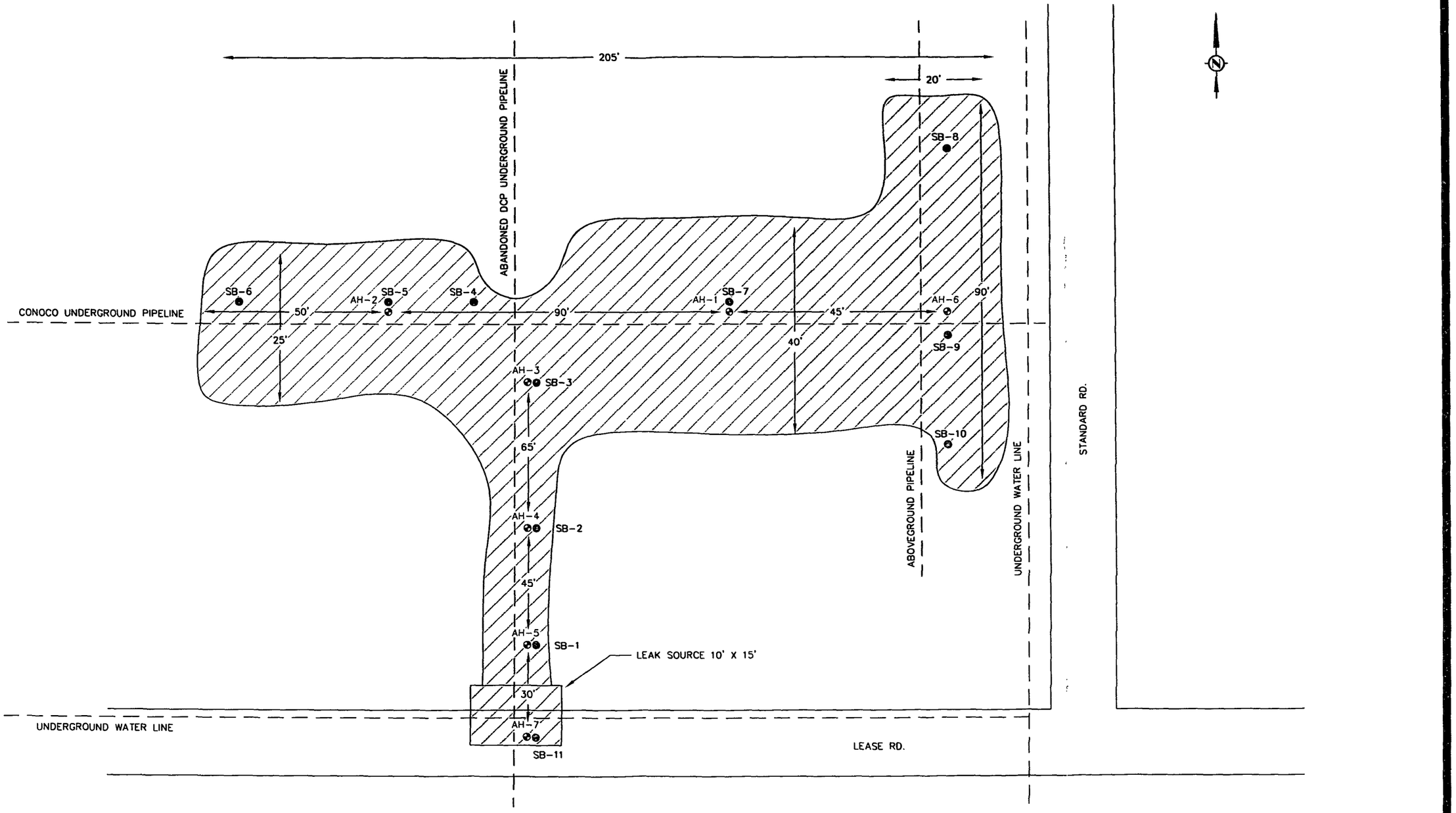


FIGURE NO. 3

EDDY COUNTY, NEW MEXICO

COG OPERATING LLC

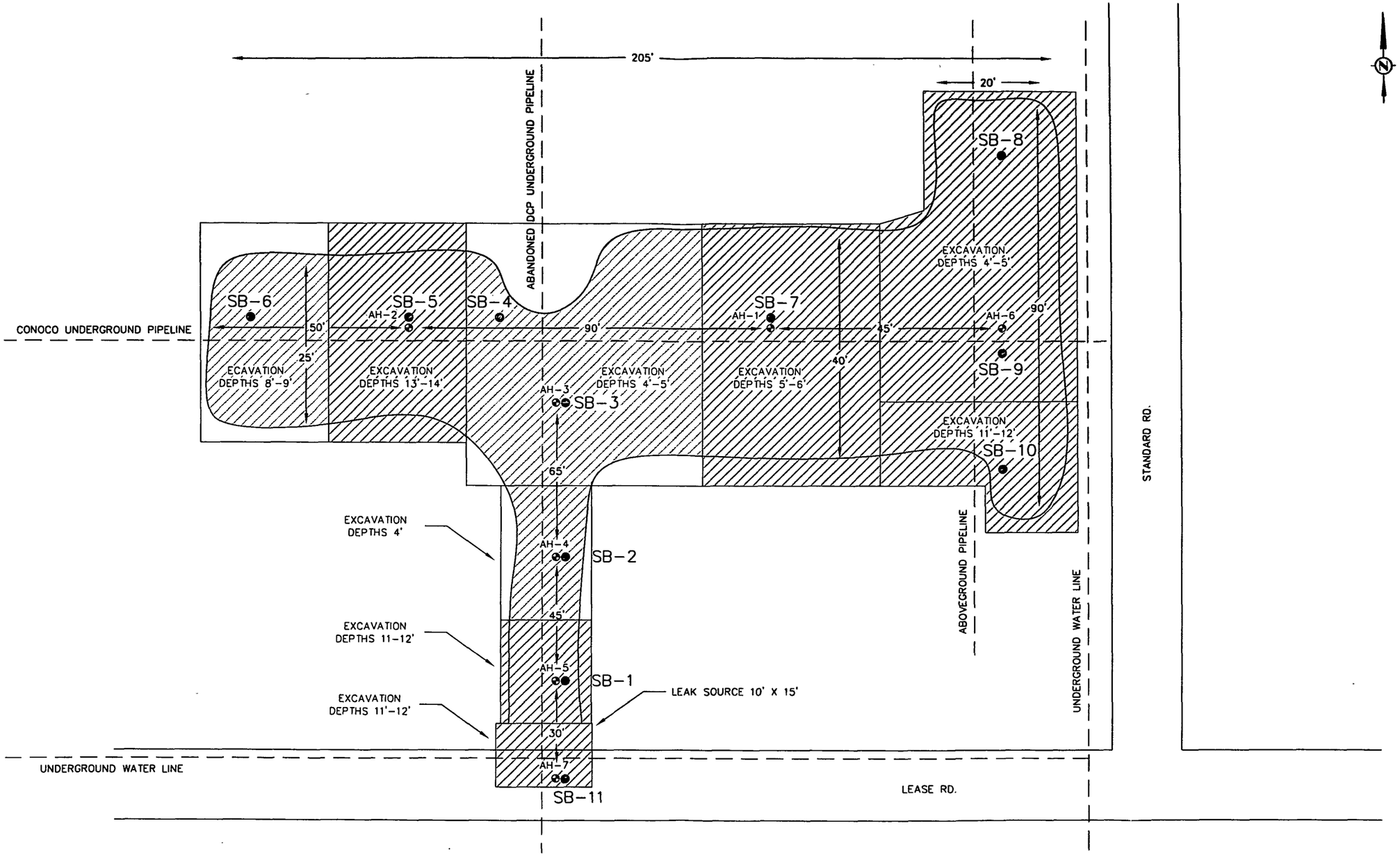
RJU #119 FLOWLINE LEAK

DATE: 6/12/09

DWN. BY: JJ

FILE: H:\COG\6400210 RJU #119 FLOWLINE

TETRA TECH, INC.
MIDLAND, TEXAS



SPILL AREA
PROPOSED EXCAVATION AREAS & DEPTHS
LINED AREAS
SAMPLE LOCATIONS
SOIL BORING LOCATIONS

NOT TO SCALE

FIGURE NO. 4

EDDY COUNTY, NEW MEXICO

COG OPERATING LLC

RJU #119 FLOWLINE LEAK

TETRA TECH, INC.
MIDLAND, TEXAS

DATE: 6/12/09
DWN. BY: JJ
FILE: H:\COG\6400210 RJU #119 FLOWLINE

TABLES

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	Total					
Area of SB-1	AH-5	6/4/2009	0-1	X		3200	19.9	3219.9	-	-	-	-	1170
		6/4/2009	1-1.5	X		-	-	-	-	-	-	-	412
		6/4/2009	2-2.5	X		-	-	-	-	-	-	-	535
		6/4/2009	3-3.5	X		-	-	-	-	-	-	-	638
		6/4/2009	4-4.5	X		-	-	-	-	-	-	-	1160
		6/4/2009	5-5.5	X		-	-	-	-	-	-	-	937
		6/4/2009	6-6.5	X		-	-	-	-	-	-	-	927
		6/4/2009	7-7.5	X		-	-	-	-	-	-	-	1380
		6/4/2009	8-8.5	X		-	-	-	-	-	-	-	1100
	SB-1	6/30/2009	5-6	X		-	-	-	-	-	-	-	1,190
		6/30/2009	8-9	X		-	-	-	-	-	-	-	1,630
liner		6/30/2009	11-12	X		-	-	-	-	-	-	-	6,240
		6/30/2009	13-14	X		-	-	-	-	-	-	-	2,760
		6/30/2009	15-16	X		-	-	-	-	-	-	-	4,210
		6/30/2009	20-21	X		-	-	-	-	-	-	-	1,870
		6/30/2009	25-26	X		-	-	-	-	-	-	-	1,290
		6/30/2009	30-31	X		-	-	-	-	-	-	-	706
		6/30/2009	35-36	X		-	-	-	-	-	-	-	406
Area of SB-2	AH-4	6/4/2009	0-1	X		<50.0	18.1	18.1	-	-	-	-	5390
		6/4/2009	1-1.5	X		-	-	-	-	-	-	-	5570
		6/4/2009	2-2.5	X		-	-	-	-	-	-	-	8120
		6/4/2009	3-3.5	X		-	-	-	-	-	-	-	3280
		6/4/2009	4-4.5	X		-	-	-	-	-	-	-	2740
		6/4/2009	5-5.5	X		-	-	-	-	-	-	-	2710
	SB-2	6/30/2009	5-6	X		-	-	-	-	-	-	-	3,990
		6/30/2009	8-9	X		-	-	-	-	-	-	-	3,290
		6/30/2009	11-12	X		-	-	-	-	-	-	-	590
		6/30/2009	13-14	X		-	-	-	-	-	-	-	207
		6/30/2009	15-16	X		-	-	-	-	-	-	-	<200

(-) Not Analyzed

Proposed Excavation Depths

Liner

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	Total					
Area of SB-3	AH-3	6/4/2009	0-1	X		<50.0	31.6	31.6	-	-	-	-	2330
		6/4/2009	1-1.5	X		-	-	-	-	-	-	-	799
		6/4/2009	2-2.5	X		-	-	-	-	-	-	-	468
		6/4/2009	3-3.5	X		-	-	-	-	-	-	-	1350
		6/4/2009	4-4.5	X		-	-	-	-	-	-	-	2490
		6/4/2009	5-5.5	X		-	-	-	-	-	-	-	3540
		6/4/2009	6-6.5	X		-	-	-	-	-	-	-	4080
	SB-3		5-6	X		-	-	-	-	-	-	-	1,430
		6/30/2009	8-9	X		-	-	-	-	-	-	-	2,880
		6/30/2009	11-12	X		-	-	-	-	-	-	-	2,820
		6/30/2009	13-14	X		-	-	-	-	-	-	-	2,250
		6/30/2009	15-16	X		-	-	-	-	-	-	-	1,980
		6/30/2009	20-21	X		-	-	-	-	-	-	-	993
		6/30/2009	25-26	X		-	-	-	-	-	-	-	<200
Area of SB-4	SB-4	6/30/2009	0-1	X		1160	736	1896	<0.0500	7.52	19.5	43.0	1,070
		6/30/2009	2-3	X		691	817	1508	<0.100	7.19	20.1	37.2	1,520
		6/30/2009	5-6	X		-	-	-	<0.0500	6.06	23.2	34.0	1,390
		6/30/2009	8-9	X		-	-	-	<0.0100	<0.0100	<0.0100	<0.0100	1,860
		6/30/2009	11-12	X		-	-	-	-	-	-	-	1,790
		6/30/2009	13-14	X		-	-	-	-	-	-	-	966
		6/30/2009	15-16	X		-	-	-	-	-	-	-	518
		6/30/2009	20-21	X		-	-	-	-	-	-	-	510
		6/30/2009	25-26	X		-	-	-	-	-	-	-	336

(-) Not Analyzed

Proposed Excavation Depths

Liner

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	Total					
Area of SB-5	AH-2	6/4/2009	0-1	X		3570	2330	5900	7.55	74.1	72.5	101	1250
		6/4/2009	1-1.5	X		4320	2830	7150	9.86	112	105	129	1670
		6/4/2009	2-2.5	X		1120	2370	3490	4.78	94.4	93.5	118	3250
		6/4/2009	3-3.5	X		-	-	-	-	-	-	-	4760
		6/4/2009	4-4.5	X		-	-	-	-	-	-	-	5240
		6/4/2009	5-5.5	X		-	-	-	-	-	-	-	5740
		6/4/2009	6-6.5	X		-	-	-	-	-	-	-	5270
	SB-5	6/30/2009	3-4	X		-	-	-	<0.0100	<0.0100	<0.0100	<0.0100	2,670
		6/30/2009	5-6	X		-	-	-	-	-	-	-	1,790
		6/30/2009	8-9	X		-	-	-	-	-	-	-	2,950
		6/30/2009	11-12	X		-	-	-	-	-	-	-	3,660
liner		6/30/2009	13-14	X		-	-	-	-	-	-	-	5,090
		6/30/2009	15-16	X		-	-	-	-	-	-	-	5,090
		6/30/2009	20-21	X		-	-	-	-	-	-	-	2,600
		6/30/2009	25-26	X		-	-	-	-	-	-	-	386
Area of SB-6	SB-6	6/30/2009	0-1	X		-	-	-	-	-	-	-	1,380
		6/30/2009	2-3	X		-	-	-	-	-	-	-	10,200
		6/30/2009	5-6	X		-	-	-	-	-	-	-	5,910
		6/30/2009	8-9	X		-	-	-	-	-	-	-	6,300
		6/30/2009	11-12	X		-	-	-	-	-	-	-	2,430
		6/30/2009	13-14	X		-	-	-	-	-	-	-	1,850
		6/30/2009	15-16	X		-	-	-	-	-	-	-	436
		6/30/2009	20-21	X		-	-	-	-	-	-	-	421
		6/30/2009	25-26	X		-	-	-	-	-	-	-	389
		6/30/2009	30-31	X		-	-	-	-	-	-	-	<200

(-) Not Analyzed

Proposed Excavation Depths

Liner

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	Total					
Area of SB-7	AH-1	6/4/2009	0-1	X		6910	766	7676	<0.0500	2.80	22.2	34.9	1520
		6/4/2009	1-1.5	X		4140	1130	5270	-	-	-	-	1690
		6/4/2009	2-2.5	X		<50.0	21.0	21.0	-	-	-	-	675
		6/4/2009	3-3.5	X		-	-	-	-	-	-	-	1280
		6/4/2009	4-4.5	X		-	-	-	-	-	-	-	1440
		6/4/2009	5-5.5	X		-	-	-	-	-	-	-	1450
		6/4/2009	6-6.5	X		-	-	-	-	-	-	-	994
liner	SB-7	6/30/2009	5-6	X		-	-	-	-	-	-	-	6,230
		6/30/2009	8-9	X		-	-	-	-	-	-	-	4,100
		6/30/2009	11-12	X		-	-	-	-	-	-	-	3,180
		6/30/2009	13-14	X		-	-	-	-	-	-	-	1,820
		6/30/2009	15-16	X		-	-	-	-	-	-	-	1,590
		6/30/2009	20-21	X		-	-	-	-	-	-	-	1,180
		6/30/2009	25-26	X		-	-	-	-	-	-	-	952
		6/30/2009	30-31	X		-	-	-	-	-	-	-	309
Area of SB-8	SB-8	6/30/2009	0-1	X		-	-	-	-	-	-	-	10,700
		6/30/2009	2-3	X		-	-	-	-	-	-	-	3,980
liner		6/30/2009	5-6	X		-	-	-	-	-	-	-	3,120
		6/30/2009	8-9	X		-	-	-	-	-	-	-	3,390
		6/30/2009	11-12	X		-	-	-	-	-	-	-	3,130
		6/30/2009	13-14	X		-	-	-	-	-	-	-	4,020
		6/30/2009	15-16	X		-	-	-	-	-	-	-	5,120
		6/30/2009	20-21	X		-	-	-	-	-	-	-	4,480
		6/30/2009	25-26	X		-	-	-	-	-	-	-	275
		6/30/2009	30-31	X		-	-	-	-	-	-	-	310

(-) Not Analyzed

Proposed Excavation Depths

Liner

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	Total					
Area of SB-9	AH-6	6/4/2009	0-1	X		<50.0	<1.00	<50.0	-	-	-	-	6750
		6/4/2009	1-1.5	X		-	-	-	-	-	-	-	8750
		6/4/2009	2-2.5	X		-	-	-	-	-	-	-	1180
		6/4/2009	3-3.5	X		-	-	-	-	-	-	-	1120
liner		6/4/2009	4-4.5	X		-	-	-	-	-	-	-	3710
		6/4/2009	5-5.5	X		-	-	-	-	-	-	-	2850
		6/4/2009	6-6.5	X		-	-	-	-	-	-	-	2540
	SB-9	6/30/2009	5-6	X		-	-	-	-	-	-	-	2,080
		6/30/2009	8-9	X		-	-	-	-	-	-	-	3,030
		6/30/2009	11-12	X		-	-	-	-	-	-	-	3,150
		6/30/2009	13-14	X		-	-	-	-	-	-	-	2,370
		6/30/2009	15-16	X		-	-	-	-	-	-	-	2,260
		6/30/2009	20-21	X		-	-	-	-	-	-	-	5,250
		6/30/2009	25-26	X		-	-	-	-	-	-	-	838
		6/30/2009	30-31	X		-	-	-	-	-	-	-	486
Area of SB-10	SB-10	6/30/2009	0-1	X		-	-	-	-	-	-	-	<200
		6/30/2009	2-3	X		-	-	-	-	-	-	-	527
		6/30/2009	5-6	X		-	-	-	-	-	-	-	1,150
		6/30/2009	8-9	X		-	-	-	-	-	-	-	2,360
liner		6/30/2009	11-12	X		-	-	-	-	-	-	-	9,190
		6/30/2009	13-14	X		-	-	-	-	-	-	-	7,050
		6/30/2009	15-16	X		-	-	-	-	-	-	-	4,920
		6/30/2009	20-21	X		-	-	-	-	-	-	-	3,620
		6/30/2009	25-26	X		-	-	-	-	-	-	-	2,140
		6/30/2009	30-31	X		-	-	-	-	-	-	-	709
		6/30/2009	35-36	X		-	-	-	-	-	-	-	274

(-) Not Analyzed

Proposed Excavation Depths

Liner

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	Total					
Area of SB-11	AH-7	6/4/2009	0-1	X		<50.0	6.14	6.14	-	-	-	-	8240
		6/4/2009	1-1.5	X		-	-	-	-	-	-	-	6460
		6/4/2009	2-2.5	X									9000
		6/4/2009	3-3.5	X									9310
	SB-11	6/30/2009	5-6	X		-	-	-	-	-	-	-	3,820
		6/30/2009	8-9	X		-	-	-	-	-	-	-	4,030
		6/30/2009	11-12	X		-	-	-	-	-	-	-	9,070
		6/30/2009	13-14	X		-	-	-	-	-	-	-	4,930
		6/30/2009	15-16	X		-	-	-	-	-	-	-	3,750
		6/30/2009	20-21	X		-	-	-	-	-	-	-	1,330
		6/30/2009	25-26	X		-	-	-	-	-	-	-	310
		6/30/2009	30-31	X		-	-	-	-	-	-	-	284

(-) Not Analyzed

Proposed Excavation Depths

Liner

APPENDIX A

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-14
Revised October 10, 200

Submit 2 Copies to appropriat
District Office in accordanc
with Rule 116 on bac
side of for

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Rep

Name of Company COG OPERATING LLC	Contact Kanicia Carrillo
Address 550 W. Texas, Suite 1300 Midland, TX 79701	Telephone No. 432-685-4332
Facility Name – RJ Unit #119	Facility Type- Injection Well

Surface Owner	Mineral Owner	Lease No. 30-015-03146

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	27	17S	29E	660	South	1980	East	Eddy

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release-Produced Water	Volume of Release-200bbls	Volume Recovered- 150bbls
Source of Release- Hole in 2" injection line	Date and Hour of Occurrence- 5/30/09- 12:00 pm	Date and Hour of Discovery 5/30/09-12:00pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher NMOCD District 2	
By Whom? Kent Greenway	Date and Hour 6/1/09- 9:30 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Hole in a 2" steel injection line. Injection was shut in at this location and the line will be replaced.

Describe Area Affected and Cleanup Action Taken.*
Approximately 50' X 100' area in pasture was affected. All liquid was vacuumed up. The area is being dug out to a 1' depth for testing.
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: K C	OIL CONSERVATION DIVISION	
Printed Name: Kanicia Carrillo	Approved by District Supervisor:	
Title: Regulatory Analyst	Approval Date:	Expiration Date:
E-mail Address: kcarrillo@conchoresources.com	Conditions of Approval:	Attached ☐
Date: 6/3/09 Phone: 432-685-4332		

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
COG - RJU Unit #119
Eddy County, New Mexico

16 South 28 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 **61**	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South 29 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19 110	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South 30 East

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 28 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 **79**	23	24
30	29	28	27	26	25
31	32	33	34 **53**	35	36

17 South 29 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 **80**	23	24
30	29 **210** **208'**	28	27 SITE	26	25
31	32	33	34	35 153	36

17 South 30 East

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

18 South 28 East

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 **65**	36

18 South 29 East

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

18 South 30 East

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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Field water level

143 NMOCD Groundwater map well location

GROUND WATER REPORT 3 PLATE 4

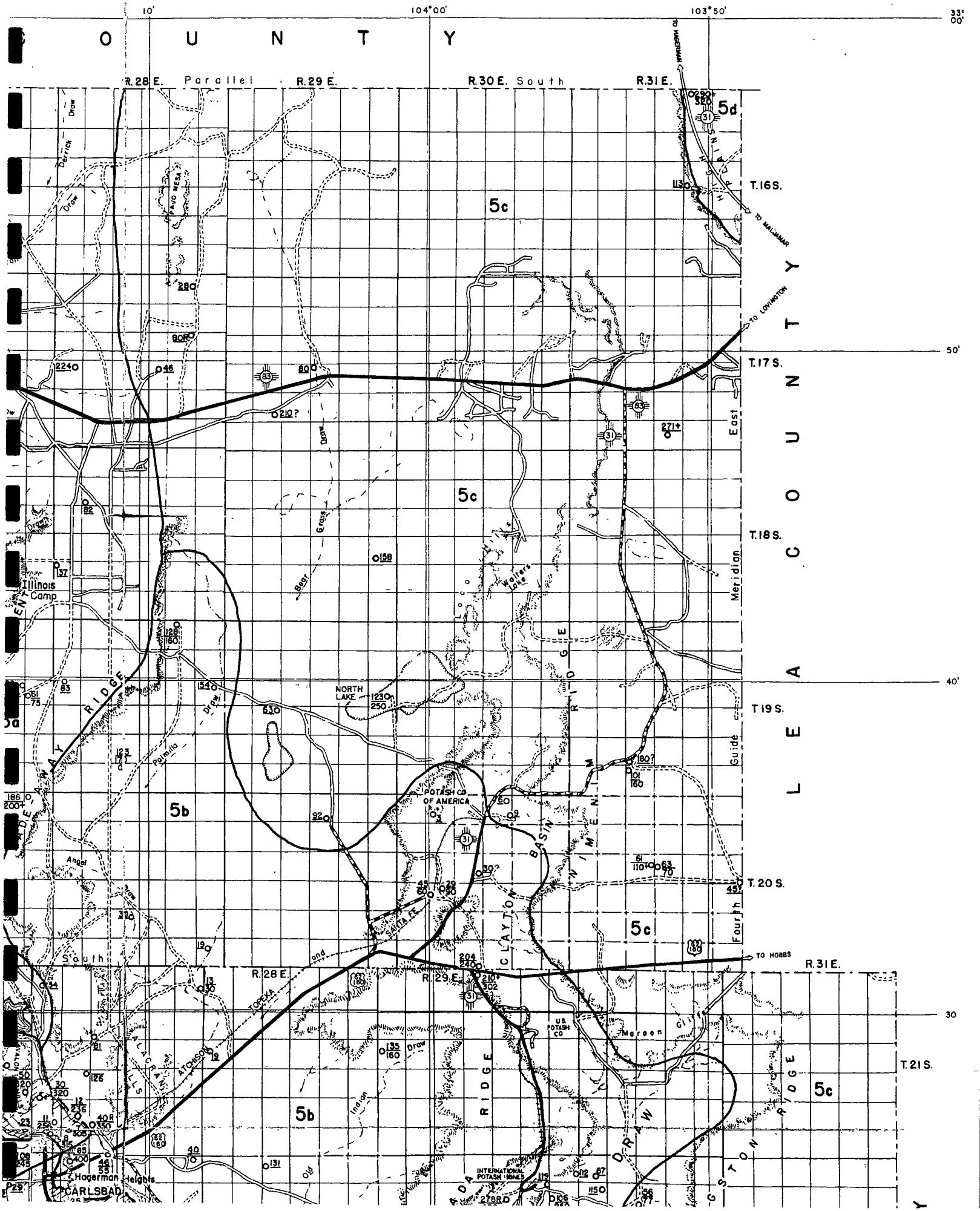


TABLE 1. RECORDS OF WELLS IN EDDY COUNTY, NEW MEXICO. (Continued)

LOCATION NUMBER	OWNER OR NAME	DATE COMPLETED	TOPOGRAPHIC SITUATION	ALTITUDE ABOVE SEA LEVEL (feet)	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	PRINCIPAL WATER-BEARING BED	
							CHARACTER OF MATERIAL	GEOLOGIC UNIT
17.28.2.240	Hal Bogle	–	Flat between mesas	–	–	6 (?)	Redbeds (?)	Dockum (?)
14.220	do.	–	Rolling	–	–	7	do.	do.
19.200	do.	–	do.	–	–	8	Redbeds, gypsum (?)	Chalk Bluff or Rustler
22.230	–	–	Flat between mesas	–	–	6	Redbeds (?)	Rustler or Dockum (?)
17.29.22.110	–	–	Bear Grass draw	3,550	–	6	do.	Dockum (?)
29.400	Bishop (?)	–	Flat	–	–	7	do.	do.
17.31.34.000	–	–	Rolling	–	–	6 (?)	Redbeds	Dockum
18.21.13.310	Andy Teel	1915	–	4,100	520	8	Limestone	San Andres
27.440	do.	1947	Broad valley	4,200	667	10	do.	do.
32.430	George Teel	1946	Rolling	4,300	815	6	do.	do.
18.23.6.140	Couhape Bros.	1941	S. of Rio Penasco	4,060	500	10	do.	do.
18.25.23.111	G. M. Phelps	–	Blackdom Terrace	–	–	–	Alluvium (?)	Quaternary (?)

See explanation at beginning of table.

LOCATION NUMBER	WATER LEVEL: BELOW LAND SURFACE (feet)	WATER LEVEL: DATE OF MEASUREMENT	YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARKS
17.28.2.240	27.6	Dec. 1, 1948	3	W	S	Depth to water measured while pumping.
14.220	80	–	61	W	S & D	Driller: Cy Hinshaw. See analysis, Table 3.
19.200	224.3	Dec. 2, 1948	1.2	W	S	Depth to water measured while pumping.
22.230	45.5	Dec. 1, 1948	–	N	N	Abandoned stock well.
17.29.22.110	79.7	Nov. 29, 1948	3 E.	W	S	Depth to water measured while pumping.
29.400	210	Dec. 3, 1948	1.1	W	S	do.
17.31.34.000	271+	Dec. 6, 1948	3.5	W	S	do. See analysis, Table 3.
18.21.13.310	505	–	10 R.	W	S & D	Formerly C.C.C. well. Cased to 30 ft.
27.440	530	–	–	W	S	Cased to 120 ft.
32.430	800 (?)	–	12 R.	W	S & D	Lowered cylinder 5 ft. in 1948 because water level declined. Cased to 380 ft.
18.23.6.140	440	Jan. 12, 1950	–	W	S & D	
18.25.23.111	117.8	Jan. 1950	–	W	S	

See explanation at beginning of table.
1 Measured Dec. 3, 1948.

National Water Information System: Web Interface

USGS Water Resources

Data Category: Ground Water | Geographic Area: New Mexico | GO

News New Mapper and Experimental Real-Time Web Service - updated August 2009

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 324855104093101
Minimum number of levels = 1

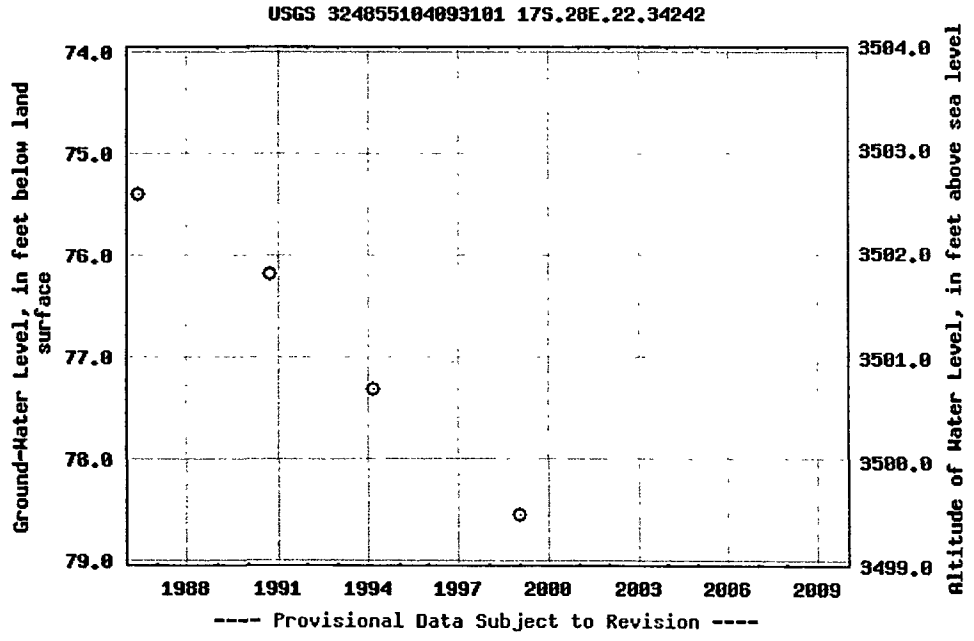
Save file of selected sites to local disk for future upload

USGS 324855104093101 17S.28E.22.34242

Available data for this site Ground-water: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°48'55", Longitude 104°09'31" NAD27
Land-surface elevation 3,578 feet above sea level NGVD29
The depth of the well is 95.00 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats
Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals

Top
Explanation of terms
Subscribe for system changes
News

SAMPLE LOG

Boring/Well: SB-1
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 36
Date Drilled: 06/30/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-6	--	Reddish tan fine grain sand (salty)
8-9	--	Red to tan sandy clay (salty)
11-12	--	Tan sandy clay (salty)
13-14	--	Tan to brown clayey sandy (salty)
15-16	--	Tan sandy clay (salty)
20-21	--	Dry red clay of high plasticity (red bed) (salty)
25-26	--	Dry red clay of high plasticity (red bed) (salty)
30-31	--	Dry red clay of high plasticity (red bed) (no salt)
35-36	--	Dry red clay of high plasticity (red bed) (no salt)

Total Depth is 36 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-2
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 16
Date Drilled: 06/30/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-6	--	Brown to tan fine grain sand (salty)
8-9	--	Red clay of high plasticity (salty)
11-12	--	Dry red clay of high plasticity (No salt)
13-14	--	Dry red clay of high plasticity (No salt)
15-16	--	Dry red clay of high plasticity (No salt)

Total Depth is 16 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-3
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 26
Date Drilled: 06/30/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-6	--	Brown to tan fine grain sand (salty)
8-9	--	Tan to brown sandy clay (salty)
11-12	--	Dry red clay of high plasticity (Salty)
13-14	--	Dry red clay of high plasticity (Salty)
15-16	--	Dry red clay of high plasticity (Salty)
20-21	--	Dry red clay of high plasticity (No salt)
25-26	--	Dry red clay of high plasticity (No salt)

Total Depth is 26 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-4
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 26
Date Drilled: 06/30/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
0-1	1645	Tan fine grain sand (strong hydrocarbon odor)
2-3	824	Tan fine grain sand intermixed with red clay (hydrocarbon odor)
5-6	1831	Tan clay of high plasticity (hydrocarbon odor)
8-9	387	Red clay of high plasticity (slight hydrocarbo odor)
11-12	125	Red clay of high plasticity (slight hydrocarbo odor)
13-14	100	Red clay of high plasticity (hydrocarbon odor)
15-16	76	Red clay of high plasticity (slight hydrocarbo odor)
20-21	12	Red clay of high plasticity (No hydrocarbon odor/no salt)
25-26	4	Red clay of high plasticity (No hydrocarbon odor/no salt)

Total Depth is 26 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-5
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 26
Date Drilled: 06/30/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
3-4	0	Tan fine grain sandy clay (salty)
5-6	4	Tan fine grain sandy clay (salty)
8-9	0	Red to tan clay of high plasticity (salty)
11-12	4	Red clay of high plasticity (salty)
13-14	0	Red clay of high plasticity (salty)
15-16	0	Red clay of high plasticity (salty)
15-16	76	Red clay of high plasticity (slight hydrocarbo odor)
20-21	--	Red clay of high plasticity (No salt)
25-26	--	Red clay of high plasticity (No salt)

Total Depth is 26 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-6
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 31
Date Drilled: 06/30/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
0-1	--	Brown fine grain sand (salty)
2-3	--	Brown silty clay (salty)
5-6	--	Tan clay of high plasticity (moist) salty
8-9	--	Tan clay of high plasticity (moist) salty
11-12	--	Tan clay of high plasticity (moist) salty
13-14	--	Red clay of high plasticity (salty)
15-16	--	Red clay of high plasticity (slight salt)
20-21	--	Red clay of high plasticity (no salt)
25-26	--	Red clay of high plasticity (slight salt)
30-31	--	Red clay of high plasticity (No salt)

Total Depth is 26 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-7
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 31
Date Drilled: 07/01/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-6	--	Tan sandy clay (moist) salty
8-9	--	Tan brown clay (moist) salty
11-12	--	Red clay of high plasticity (dry) salty
13-14	--	Tan to red clay of high plasticity (moist) salty
15-16	--	Red clay of high plasticity (moist) slightly salty
20-21	--	Red clay of high plasticity (dry) slightly salty
25-26	--	Red clay of high plasticity (dry) no salt
30-31	--	Red clay of high plasticity (dry) no salt

Total Depth is 31 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-8
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 31
Date Drilled: 07/01/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
0-1	--	Brown fine grain moist sand (salty)
2-3	--	Brown clayey moist sand (salty)
5-6	--	Tan calcareous moist clay (salty)
8-9	--	Tan sandy clay (moist) salty
11-12	--	Red clay of high plasticity (moist) salty
13-14	--	Red sandy clay (moist) salty
15-16	--	Red clay of high plasticity (dry) salty
20-21	--	Red clay of high plasticity (dry) salty
25-26	--	Red clay of high plasticity (dry) no salt
30-31	--	Red clay of high plasticity (dry) no salt

Total Depth is 31 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-9
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 31
Date Drilled: 07/01/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-6	--	Brown fine grain sand (moist) salty
8-9	--	Tan to buff calcareous clay (moist) salty
11-12	--	Red sandy clay (moist) salty
13-14	--	Red sandy clay (salty)
15-16	--	Red clay of high plasticity (slightly salty)
20-21	--	Red clay of high plasticity (slightly salty)
25-26	--	Red clay of high plasticity (no salt)
30-31	--	Red clay of high plasticity (no salt)

Total Depth is 31 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-10
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 36
Date Drilled: 07/01/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-6	--	Tan sandy clay (moist)
8-9	--	Tan brown clay (moist)
11-12	--	Red clay of high plasticity (dry)
13-14	--	Tan to red clay of high plasticity (moist)
15-16	--	Red clay of high plasticity (moist)
20-21	--	Red clay of high plasticity (dry)
25-26	--	Red clay of high plasticity (dry)
30-31	--	Red clay of high plasticity (dry)
35-36	--	Red clay of high plasticity (dry)

Total Depth is 36 feet No groundwater encountered during drilling activities.

SAMPLE LOG

Boring/Well: SB-11
Project Number: 114-6400210
Client: Concho Oil and Gas
Site Location: RJU Unit #119
Location: Eddy County, New Mexico
Total Depth 31
Date Drilled: 07/01/09

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-6	--	Tan sandy clay (moist)
8-9	--	Tan brown clay (moist)
11-12	--	Red clay of high plasticity (dry)
13-14	--	Tan to red clay of high plasticity (moist)
15-16	--	Red clay of high plasticity (moist)
20-21	--	Red clay of high plasticity (dry)
25-26	--	Red clay of high plasticity (dry)
30-31	--	Red clay of high plasticity (dry)

Total Depth is 31 feet No groundwater encountered during drilling activities.

APPENDIX D

Summary Report

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

Report Date: June 16, 2009

Work Order: 9060527

Project Name: COG/RJU #119 Flowline Spill
Project Number: 114-6400210

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
198009	BG-1 0-1'	soil	2009-06-04	00:00	2009-06-05
198010	BG-1 2-2.5'	soil	2009-06-04	00:00	2009-06-05
198011	BG-1 3-3.5'	soil	2009-06-04	00:00	2009-06-05
198012	AH-1 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198013	AH-1 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198014	AH-1 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198015	AH-1 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198016	AH-1 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198017	AH-1 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198018	AH-1 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198019	AH-2 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198020	AH-2 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198021	AH-2 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198022	AH-2 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198023	AH-2 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198024	AH-2 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198025	AH-2 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198026	AH-3 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198027	AH-3 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198028	AH-3 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198029	AH-3 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198030	AH-3 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198031	AH-3 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198032	AH-3 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198033	AH-4 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198034	AH-4 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198035	AH-4 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198036	AH-4 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198037	AH-4 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198038	AH-4 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198039	AH-5 0-1' BEB	soil	2009-06-04	00:00	2009-06-05

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
198040	AH-5 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198041	AH-5 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198042	AH-5 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198043	AH-5 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198044	AH-5 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198045	AH-5 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198046	AH-5 7-7.5' BEB	soil	2009-06-04	00:00	2009-06-05
198047	AH-5 8-8.5' BEB	soil	2009-06-04	00:00	2009-06-05
198048	AH-6 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198049	AH-6 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198050	AH-6 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198051	AH-6 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198052	AH-6 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198053	AH-6 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198054	AH-6 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198055	AH-7 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198056	AH-7 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198057	AH-7 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198058	AH-7 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05

Sample - Field Code	BTEX Benzene (mg/Kg)	BTEX Toluene (mg/Kg)	BTEX Ethylbenzene (mg/Kg)	BTEX Xylene (mg/Kg)	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
198012 - AH-1 0-1' BEB	<0.0500	**2.80**	**22.2**	**34.9**	**6910**	**766**
198013 - AH-1 1-1.5' BEB					**4140**	**1130**
198014 - AH-1 2-2.5' BEB					<50.0	**21.0**
198019 - AH-2 0-1' BEB	**7.55**	**74.1**	**72.5**	**101**	**3570**	**2330**
198020 - AH-2 1-1.5' BEB	**9.86**	**112**	**105**	**129**	**4320**	**2830**
198021 - AH-2 2-2.5' BEB	**4.78**	**94.4**	**93.5**	**118**	**1120**	**2370**
198026 - AH-3 0-1' BEB					<50.0	**31.6**
198033 - AH-4 0-1' BEB					<50.0	**18.1**
198039 - AH-5 0-1' BEB					**3200**	**19.9**
198048 - AH-6 0-1' BEB					<50.0	<1.00
198055 - AH-7 0-1' BEB					<50.0	**6.14**

Sample: 198009 - BG-1 0-1'

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

Sample: 198010 - BG-1 2-2.5'

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

Sample: 198011 - BG-1 3-3.5'

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

Sample: 198012 - AH-1 0-1' BEB

Param	Flag	Result	Units	RL
Chloride		**1520**	mg/Kg	4.00

Sample: 198013 - AH-1 1-1.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1690**	mg/Kg	4.00

Sample: 198014 - AH-1 2-2.5' BEB

Param	Flag	Result	Units	RL
Chloride		**675**	mg/Kg	4.00

Sample: 198015 - AH-1 3-3.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1280**	mg/Kg	4.00

Sample: 198016 - AH-1 4-4.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1440**	mg/Kg	4.00

Sample: 198017 - AH-1 5-5.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1450**	mg/Kg	4.00

Sample: 198018 - AH-1 6-6.5' BEB

Param	Flag	Result	Units	RL
Chloride		**994**	mg/Kg	4.00

Sample: 198019 - AH-2 0-1' BEB

Param	Flag	Result	Units	RL
Chloride		**1250**	mg/Kg	4.00

Sample: 198020 - AH-2 1-1.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1670**	mg/Kg	4.00

Sample: 198021 - AH-2 2-2.5' BEB

Param	Flag	Result	Units	RL
Chloride		**3250**	mg/Kg	4.00

Sample: 198022 - AH-2 3-3.5' BEB

Param	Flag	Result	Units	RL
Chloride		**4760**	mg/Kg	4.00

Sample: 198023 - AH-2 4-4.5' BEB

Param	Flag	Result	Units	RL
Chloride		**5240**	mg/Kg	4.00

Sample: 198024 - AH-2 5-5.5' BEB

Param	Flag	Result	Units	RL
Chloride		**5740**	mg/Kg	4.00

Sample: 198025 - AH-2 6-6.5' BEB

Param	Flag	Result	Units	RL
Chloride		**5270**	mg/Kg	4.00

Sample: 198026 - AH-3 0-1' BEB

Param	Flag	Result	Units	RL
Chloride		**2330**	mg/Kg	4.00

Sample: 198027 - AH-3 1-1.5' BEB

Param	Flag	Result	Units	RL
Chloride		**799**	mg/Kg	4.00

Sample: 198028 - AH-3 2-2.5' BEB

Param	Flag	Result	Units	RL
Chloride		**468**	mg/Kg	4.00

Sample: 198029 - AH-3 3-3.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1350**	mg/Kg	4.00

Sample: 198030 - AH-3 4-4.5' BEB

Param	Flag	Result	Units	RL
Chloride		**2490**	mg/Kg	4.00

Sample: 198031 - AH-3 5-5.5' BEB

Param	Flag	Result	Units	RL
Chloride		**3540**	mg/Kg	4.00

Sample: 198032 - AH-3 6-6.5' BEB

Param	Flag	Result	Units	RL
Chloride		**4080**	mg/Kg	4.00

Sample: 198033 - AH-4 0-1' BEB

Param	Flag	Result	Units	RL
Chloride		**5390**	mg/Kg	4.00

Sample: 198034 - AH-4 1-1.5' BEB

Param	Flag	Result	Units	RL
Chloride		**5570**	mg/Kg	4.00

Sample: 198035 - AH-4 2-2.5' BEB

Param	Flag	Result	Units	RL
Chloride		**8120**	mg/Kg	4.00

Sample: 198036 - AH-4 3-3.5' BEB

Param	Flag	Result	Units	RL
Chloride		**3280**	mg/Kg	4.00

Sample: 198037 - AH-4 4-4.5' BEB

Param	Flag	Result	Units	RL
Chloride		**2740**	mg/Kg	4.00

Sample: 198038 - AH-4 5-5.5' BEB

Param	Flag	Result	Units	RL
Chloride		**2710**	mg/Kg	4.00

Sample: 198039 - AH-5 0-1' BEB

Param	Flag	Result	Units	RL
Chloride		**1170**	mg/Kg	4.00

Sample: 198040 - AH-5 1-1.5' BEB

Param	Flag	Result	Units	RL
Chloride		**412**	mg/Kg	4.00

Sample: 198041 - AH-5 2-2.5' BEB

Param	Flag	Result	Units	RL
Chloride		**535**	mg/Kg	4.00

Sample: 198042 - AH-5 3-3.5' BEB

Param	Flag	Result	Units	RL
Chloride		**638**	mg/Kg	4.00

Sample: 198043 - AH-5 4-4.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1160**	mg/Kg	4.00

Sample: 198044 - AH-5 5-5.5' BEB

Param	Flag	Result	Units	RL
Chloride		**937**	mg/Kg	4.00

Sample: 198045 - AH-5 6-6.5' BEB

Param	Flag	Result	Units	RL
Chloride		**927**	mg/Kg	4.00

Sample: 198046 - AH-5 7-7.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1380**	mg/Kg	4.00

Sample: 198047 - AH-5 8-8.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1100**	mg/Kg	4.00

Sample: 198048 - AH-6 0-1' BEB

Param	Flag	Result	Units	RL
Chloride		**6750**	mg/Kg	4.00

Sample: 198049 - AH-6 1-1.5' BEB

Param	Flag	Result	Units	RL
Chloride		**8750**	mg/Kg	4.00

Sample: 198050 - AH-6 2-2.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1180**	mg/Kg	4.00

Sample: 198051 - AH-6 3-3.5' BEB

Param	Flag	Result	Units	RL
Chloride		**1120**	mg/Kg	4.00

Sample: 198052 - AH-6 4-4.5' BEB

Param	Flag	Result	Units	RL
Chloride		**3710**	mg/Kg	4.00

Sample: 198053 - AH-6 5-5.5' BEB

Param	Flag	Result	Units	RL
Chloride		**2850**	mg/Kg	4.00

Sample: 198054 - AH-6 6-6.5' BEB

Param	Flag	Result	Units	RL
Chloride		**2540**	mg/Kg	4.00

Sample: 198055 - AH-7 0-1' BEB

Param	Flag	Result	Units	RL
Chloride		**8240**	mg/Kg	4.00

Sample: 198056 - AH-7 1-1.5' BEB

Param	Flag	Result	Units	RL
Chloride		**6460**	mg/Kg	4.00

Sample: 198057 - AH-7 2-2.5' BEB

Param	Flag	Result	Units	RL
Chloride		**9000**	mg/Kg	4.00

Sample: 198058 - AH-7 3-3.5' BEB

Param	Flag	Result	Units	RL
Chloride		**9310**	mg/Kg	4.00

TRACEANALYSIS, INC.

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Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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: June 16, 2009

Work Order: 9060527

Project Name: COG/RJU #119 Flowline Spill
Project Number: 114-6400210

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
198009	BG-1 0-1'	soil	2009-06-04	00:00	2009-06-05
198010	BG-1 2-2.5'	soil	2009-06-04	00:00	2009-06-05
198011	BG-1 3-3.5'	soil	2009-06-04	00:00	2009-06-05
198012	AH-1 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198013	AH-1 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198014	AH-1 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198015	AH-1 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198016	AH-1 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198017	AH-1 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198018	AH-1 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198019	AH-2 0-1' BEB	soil	2009-06-04	00:00	2009-06-05

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
198020	AH-2 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198021	AH-2 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198022	AH-2 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198023	AH-2 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198024	AH-2 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198025	AH-2 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198026	AH-3 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198027	AH-3 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198028	AH-3 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198029	AH-3 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198030	AH-3 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198031	AH-3 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198032	AH-3 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198033	AH-4 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198034	AH-4 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198035	AH-4 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198036	AH-4 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198037	AH-4 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198038	AH-4 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198039	AH-5 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198040	AH-5 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198041	AH-5 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198042	AH-5 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198043	AH-5 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198044	AH-5 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198045	AH-5 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198046	AH-5 7-7.5' BEB	soil	2009-06-04	00:00	2009-06-05
198047	AH-5 8-8.5' BEB	soil	2009-06-04	00:00	2009-06-05
198048	AH-6 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198049	AH-6 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198050	AH-6 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198051	AH-6 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05
198052	AH-6 4-4.5' BEB	soil	2009-06-04	00:00	2009-06-05
198053	AH-6 5-5.5' BEB	soil	2009-06-04	00:00	2009-06-05
198054	AH-6 6-6.5' BEB	soil	2009-06-04	00:00	2009-06-05
198055	AH-7 0-1' BEB	soil	2009-06-04	00:00	2009-06-05
198056	AH-7 1-1.5' BEB	soil	2009-06-04	00:00	2009-06-05
198057	AH-7 2-2.5' BEB	soil	2009-06-04	00:00	2009-06-05
198058	AH-7 3-3.5' BEB	soil	2009-06-04	00:00	2009-06-05

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

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project COG/RJU #119 Flowline Spill were received by TraceAnalysis, Inc. on 2009-06-05 and assigned to work order 9060527. Samples for work order 9060527 were received intact at a temperature of 13.1 deg. 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	51377	2009-06-08 at 10:09	60203	2009-06-08 at 10:09
BTEX	S 8021B	51454	2009-06-10 at 09:21	60299	2009-06-10 at 09:21
BTEX	S 8021B	51559	2009-06-15 at 10:35	60438	2009-06-15 at 10:35
Chloride (Titration)	SM 4500-Cl B	51363	2009-06-08 at 09:31	60187	2009-06-08 at 15:11
Chloride (Titration)	SM 4500-Cl B	51397	2009-06-09 at 10:14	60226	2009-06-09 at 15:17
Chloride (Titration)	SM 4500-Cl B	51398	2009-06-09 at 10:14	60227	2009-06-09 at 15:18
Chloride (Titration)	SM 4500-Cl B	51399	2009-06-09 at 10:15	60228	2009-06-09 at 15:19
Chloride (Titration)	SM 4500-Cl B	51400	2009-06-09 at 10:16	60229	2009-06-09 at 15:19
Chloride (Titration)	SM 4500-Cl B	51401	2009-06-09 at 10:16	60230	2009-06-09 at 15:20
TPH DRO	Mod. 8015B	51381	2009-06-08 at 16:00	60209	2009-06-08 at 22:22
TPH DRO	Mod. 8015B	51453	2009-06-10 at 15:00	60297	2009-06-10 at 12:21
TPH DRO	Mod. 8015B	51490	2009-06-12 at 08:30	60354	2009-06-12 at 09:16
TPH GRO	S 8015B	51377	2009-06-08 at 10:09	60204	2009-06-08 at 10:09
TPH GRO	S 8015B	51454	2009-06-10 at 09:21	60300	2009-06-10 at 09:21
TPH GRO	S 8015B	51482	2009-06-11 at 12:56	60339	2009-06-11 at 12:56
TPH GRO	S 8015B	51528	2009-06-12 at 10:15	60398	2009-06-12 at 10:15

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 9060527 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 198009 - BG-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60187	Date Analyzed:	2009-06-08	Analyzed By:	AR
Prep Batch:	51363	Sample Preparation:	2009-06-08	Prepared By:	AR

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

Sample: 198010 - BG-1 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

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

Sample: 198011 - BG-1 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

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

Sample: 198012 - AH-1 0-1' BEB

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	60203	Date Analyzed:	2009-06-08	Analyzed By:	ME
Prep Batch:	51377	Sample Preparation:	2009-06-08	Prepared By:	ME

continued ...

sample 198012 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		**2.80**	mg/Kg	5	0.0100
Ethylbenzene		**22.2**	mg/Kg	5	0.0100
Xylene		**34.9**	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.95	mg/Kg	5	10.0	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		14.1	mg/Kg	5	10.0	141	45.2 - 144.3

Sample: 198012 - AH-1 0-1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1520**	mg/Kg	50	4.00

Sample: 198012 - AH-1 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60209	Date Analyzed:	2009-06-08	Analyzed By:	AG
Prep Batch:	51381	Sample Preparation:	2009-06-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**6910**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	552	mg/Kg	5	100	552	13.2 - 219.3

[1] High surrogate recovery due to peak interference.

Sample: 198012 - AH-1 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60204	Date Analyzed:	2009-06-08	Analyzed By:	ME
Prep Batch:	51377	Sample Preparation:	2009-06-08	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**766**		mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.4	mg/Kg	5	10.0	104	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	[2]	22.8	mg/Kg	5	10.0	228	52 - 117

Sample: 198013 - AH-1 1-1.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1690**		mg/Kg	50	4.00

Sample: 198013 - AH-1 1-1.5' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60297	Date Analyzed:	2009-06-10	Analyzed By:	AG
Prep Batch:	51453	Sample Preparation:	2009-06-10	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**4140**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[3]	315	mg/Kg	1	100	315	13.2 - 219.3

[2]High surrogate recovery due to peak interference.
[3]High surrogate recovery due to peak interference.

Sample: 198013 - AH-1 1-1.5' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60339	Date Analyzed:	2009-06-11	Analyzed By:	ME
Prep Batch:	51482	Sample Preparation:	2009-06-11	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1130**	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		41.6	mg/Kg	20	40.0	104	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	[4]	79.1	mg/Kg	20	40.0	198	52 - 117

Sample: 198014 - AH-1 2-2.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**675**	mg/Kg	50	4.00

Sample: 198014 - AH-1 2-2.5' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60297	Date Analyzed:	2009-06-10	Analyzed By:	AG
Prep Batch:	51453	Sample Preparation:	2009-06-10	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		100	mg/Kg	1	100	100	13.2 - 219.3

[4]High surrogate recovery due to peak interference.

Sample: 198014 - AH-1 2-2.5' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60300	Date Analyzed:	2009-06-10	Analyzed By:	ME
Prep Batch:	51454	Sample Preparation:	2009-06-10	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**21.0**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.09	mg/Kg	1	2.00	104	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.63	mg/Kg	1	2.00	82	52 - 117

Sample: 198015 - AH-1 3-3.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1280**	mg/Kg	50	4.00

Sample: 198016 - AH-1 4-4.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1440**	mg/Kg	50	4.00

Sample: 198017 - AH-1 5-5.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1450**	mg/Kg	50	4.00

Sample: 198018 - AH-1 6-6.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**994**	mg/Kg	50	4.00

Sample: 198019 - AH-2 0-1' BEB

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	60299	Date Analyzed:	2009-06-10	Analyzed By:	ME
Prep Batch:	51454	Sample Preparation:	2009-06-10	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**7.55**	mg/Kg	20	0.0100
Toluene		**74.1**	mg/Kg	20	0.0100
Ethylbenzene		**72.5**	mg/Kg	20	0.0100
Xylene		**101**	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		39.0	mg/Kg	20	40.0	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		53.1	mg/Kg	20	40.0	133	45.2 - 144.3

Sample: 198019 - AH-2 0-1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1250**	mg/Kg	50	4.00

Sample: 198019 - AH-2 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60209	Date Analyzed:	2009-06-08	Analyzed By:	AG
Prep Batch:	51381	Sample Preparation:	2009-06-08	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**3570**		mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[5]	349	mg/Kg	5	100	349	13.2 - 219.3

Sample: 198019 - AH-2 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60300	Date Analyzed:	2009-06-10	Analyzed By:	ME
Prep Batch:	51454	Sample Preparation:	2009-06-10	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**2330**		mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		41.8	mg/Kg	20	40.0	104	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	[6]	84.6	mg/Kg	20	40.0	212	52 - 117

Sample: 198020 - AH-2 1-1.5' BEB

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	60438	Date Analyzed:	2009-06-15	Analyzed By:	ME
Prep Batch:	51559	Sample Preparation:	2009-06-15	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**9.86**		mg/Kg	20	0.0100
Toluene		**112**		mg/Kg	20	0.0100
Ethylbenzene		**105**		mg/Kg	20	0.0100
Xylene		**129**		mg/Kg	20	0.0100

[5]High surrogate recovery due to peak interference.
[6]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		38.2	mg/Kg	20	40.0	96	49 - 129.7
4-Bromofluorobenzene (4-BFB)	[7]	58.7	mg/Kg	20	40.0	147	45.2 - 144.3

Sample: 198020 - AH-2 1-1.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1670**	mg/Kg	50	4.00

Sample: 198020 - AH-2 1-1.5' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60354	Date Analyzed:	2009-06-12	Analyzed By:	AG
Prep Batch:	51490	Sample Preparation:	2009-06-12	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**4320**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		536	mg/Kg	5	100	536	13.2 - 219.3

Sample: 198020 - AH-2 1-1.5' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60398	Date Analyzed:	2009-06-12	Analyzed By:	ME
Prep Batch:	51528	Sample Preparation:	2009-06-12	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2830**	mg/Kg	20	1.00

[7] High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		42.7	mg/Kg	20	40.0	107	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	[8]	105	mg/Kg	20	40.0	262	52 - 117

Sample: 198021 - AH-2 2-2.5' BEB

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	60438	Date Analyzed:	2009-06-15	Analyzed By:	ME
Prep Batch:	51559	Sample Preparation:	2009-06-15	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**4.78**	mg/Kg	10	0.0100
Toluene		**94.4**	mg/Kg	10	0.0100
Ethylbenzene		**93.5**	mg/Kg	10	0.0100
Xylene		**118**	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		18.9	mg/Kg	10	20.0	94	49 - 129.7
4-Bromofluorobenzene (4-BFB)	[9]	34.0	mg/Kg	10	20.0	170	45.2 - 144.3

Sample: 198021 - AH-2 2-2.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3250**	mg/Kg	50	4.00

Sample: 198021 - AH-2 2-2.5' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60354	Date Analyzed:	2009-06-12	Analyzed By:	AG
Prep Batch:	51490	Sample Preparation:	2009-06-12	Prepared By:	AG

[8] High surrogate recovery due to peak interference.
[9] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1120**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		144	mg/Kg	1	100	144	13.2 - 219.3

Sample: 198021 - AH-2 2-2.5' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60398	Date Analyzed:	2009-06-12	Analyzed By:	ME
Prep Batch:	51528	Sample Preparation:	2009-06-12	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2370**	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		21.3	mg/Kg	10	20.0	106	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	[10]	39.0	mg/Kg	10	20.0	195	52 - 117

Sample: 198022 - AH-2 3-3.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**4760**	mg/Kg	50	4.00

Sample: 198023 - AH-2 4-4.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

continued ...

[10] High surrogate recovery due to peak interference.

sample 198023 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5240**	mg/Kg	50	4.00

Sample: 198024 - AH-2 5-5.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5740**	mg/Kg	50	4.00

Sample: 198025 - AH-2 6-6.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5270**	mg/Kg	50	4.00

Sample: 198026 - AH-3 0-1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2330**	mg/Kg	50	4.00

Sample: 198026 - AH-3 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60209	Date Analyzed:	2009-06-08	Analyzed By:	AG
Prep Batch:	51381	Sample Preparation:	2009-06-08	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		85.7	mg/Kg	1	100	86	13.2 - 219.3

Sample: 198026 - AH-3 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60204	Date Analyzed:	2009-06-08	Analyzed By:	ME
Prep Batch:	51377	Sample Preparation:	2009-06-08	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**31.6**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00	102	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.69	mg/Kg	1	2.00	84	52 - 117

Sample: 198027 - AH-3 1-1.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**799**	mg/Kg	50	4.00

Sample: 198028 - AH-3 2-2.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**468**	mg/Kg	50	4.00

Sample: 198029 - AH-3 3-3.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1350**	mg/Kg	50	4.00

Sample: 198030 - AH-3 4-4.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2490**	mg/Kg	50	4.00

Sample: 198031 - AH-3 5-5.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3540**	mg/Kg	50	4.00

Sample: 198032 - AH-3 6-6.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**4080**	mg/Kg	50	4.00

Sample: 198033 - AH-4 0-1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5390**	mg/Kg	50	4.00

Sample: 198033 - AH-4 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60209	Date Analyzed:	2009-06-08	Analyzed By:	AG
Prep Batch:	51381	Sample Preparation:	2009-06-08	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		113	mg/Kg	1	100	113	13.2 - 219.3

Sample: 198033 - AH-4 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60204	Date Analyzed:	2009-06-08	Analyzed By:	ME
Prep Batch:	51377	Sample Preparation:	2009-06-08	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**18.1**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.98	mg/Kg	1	2.00	99	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.38	mg/Kg	1	2.00	69	52 - 117

Sample: 198034 - AH-4 1-1.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**5570**		mg/Kg	50	4.00

Sample: 198035 - AH-4 2-2.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**8120**		mg/Kg	50	4.00

Sample: 198036 - AH-4 3-3.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**3280**		mg/Kg	50	4.00

Sample: 198037 - AH-4 4-4.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2740**	mg/Kg	50	4.00

Sample: 198038 - AH-4 5-5.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2710**	mg/Kg	50	4.00

Sample: 198039 - AH-5 0-1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1170**	mg/Kg	50	4.00

Sample: 198039 - AH-5 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60209	Date Analyzed:	2009-06-08	Analyzed By:	AG
Prep Batch:	51381	Sample Preparation:	2009-06-08	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**3200**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[11]	634	mg/Kg	1	100	634	13.2 - 219.3

Sample: 198039 - AH-5 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60204	Date Analyzed:	2009-06-08	Analyzed By:	ME
Prep Batch:	51377	Sample Preparation:	2009-06-08	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**19.9**	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3.91	mg/Kg	2	4.00	98	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		2.76	mg/Kg	2	4.00	69	52 - 117

Sample: 198040 - AH-5 1-1.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**412**	mg/Kg	50	4.00

Sample: 198041 - AH-5 2-2.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**535**	mg/Kg	50	4.00

[11] High surrogate recovery due to peak interference.

Sample: 198042 - AH-5 3-3.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**638**	mg/Kg	50	4.00

Sample: 198043 - AH-5 4-4.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1160**	mg/Kg	50	4.00

Sample: 198044 - AH-5 5-5.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**937**	mg/Kg	50	4.00

Sample: 198045 - AH-5 6-6.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**927**	mg/Kg	50	4.00

Sample: 198046 - AH-5 7-7.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1380**		mg/Kg	50	4.00

Sample: 198047 - AH-5 8-8.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1100**		mg/Kg	50	4.00

Sample: 198048 - AH-6 0-1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**6750**		mg/Kg	50	4.00

Sample: 198048 - AH-6 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60209	Date Analyzed:	2009-06-08	Analyzed By:	AG
Prep Batch:	51381	Sample Preparation:	2009-06-08	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		108	mg/Kg	1	100	108	13.2 - 219.3

Sample: 198048 - AH-6 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60204	Date Analyzed:	2009-06-08	Analyzed By:	ME
Prep Batch:	51377	Sample Preparation:	2009-06-08	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.01	mg/Kg	1	2.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.26	mg/Kg	1	2.00	63	52 - 117

Sample: 198049 - AH-6 1-1.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8750**	mg/Kg	50	4.00

Sample: 198050 - AH-6 2-2.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1180**	mg/Kg	50	4.00

Sample: 198051 - AH-6 3-3.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1120**		mg/Kg	50	4.00

Sample: 198052 - AH-6 4-4.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**3710**		mg/Kg	50	4.00

Sample: 198053 - AH-6 5-5.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**2850**		mg/Kg	50	4.00

Sample: 198054 - AH-6 6-6.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**2540**		mg/Kg	50	4.00

Sample: 198055 - AH-7 0-1' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8240**	mg/Kg	50	4.00

Sample: 198055 - AH-7 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	60209	Date Analyzed:	2009-06-08	Analyzed By:	AG
Prep Batch:	51381	Sample Preparation:	2009-06-08	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		101	mg/Kg	1	100	101	13.2 - 219.3

Sample: 198055 - AH-7 0-1' BEB

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60204	Date Analyzed:	2009-06-08	Analyzed By:	ME
Prep Batch:	51377	Sample Preparation:	2009-06-08	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**6.14**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00	102	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.28	mg/Kg	1	2.00	64	52 - 117

Sample: 198056 - AH-7 1-1.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6460**	mg/Kg	50	4.00

Sample: 198057 - AH-7 2-2.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9000**	mg/Kg	50	4.00

Sample: 198058 - AH-7 3-3.5' BEB

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	Sample Preparation:	2009-06-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9310**	mg/Kg	50	4.00

Method Blank (1) QC Batch: 60187

QC Batch:	60187	Date Analyzed:	2009-06-08	Analyzed By:	AR
Prep Batch:	51363	QC Preparation:	2009-06-08	Prepared By:	AR

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

Method Blank (1) QC Batch: 60203

QC Batch: 60203 | Date Analyzed: 2009-06-08 | Analyzed By: ME
Prep Batch: 51377 | QC Preparation: 2009-06-08 | Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.87	mg/Kg	1	2.00	94	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	51.9 - 128.1

Method Blank (1) QC Batch: 60204

QC Batch: 60204 | Date Analyzed: 2009-06-08 | Analyzed By: ME
Prep Batch: 51377 | QC Preparation: 2009-06-08 | Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.93	mg/Kg	1	2.00	96	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.27	mg/Kg	1	2.00	64	45.7 - 118.9

Method Blank (1) QC Batch: 60209

QC Batch: 60209 | Date Analyzed: 2009-06-08 | Analyzed By: AG
Prep Batch: 51381 | QC Preparation: 2009-06-08 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		176	mg/Kg	1	100	176	13 - 178.5

Method Blank (1) QC Batch: 60226

QC Batch:	60226	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51397	QC Preparation:	2009-06-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 60227

QC Batch:	60227	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51398	QC Preparation:	2009-06-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 60228

QC Batch:	60228	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51399	QC Preparation:	2009-06-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 60229

QC Batch:	60229	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51400	QC Preparation:	2009-06-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 60230

QC Batch:	60230	Date Analyzed:	2009-06-09	Analyzed By:	AR
Prep Batch:	51401	QC Preparation:	2009-06-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 60297

QC Batch: 60297 | Date Analyzed: 2009-06-10 | Analyzed By: AG
Prep Batch: 51453 | QC Preparation: 2009-06-10 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
DRO		7.14	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		116	mg/Kg	1	100	116	13 - 178.5

Method Blank (1) QC Batch: 60299

QC Batch: 60299 | Date Analyzed: 2009-06-10 | Analyzed By: ME
Prep Batch: 51454 | QC Preparation: 2009-06-10 | Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.84	mg/Kg	1	2.00	92	51.9 - 128.1

Method Blank (1) QC Batch: 60300

QC Batch: 60300 | Date Analyzed: 2009-06-10 | Analyzed By: ME
Prep Batch: 51454 | QC Preparation: 2009-06-10 | Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00	102	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.43	mg/Kg	1	2.00	72	45.7 - 118.9

Method Blank (1) QC Batch: 60339

QC Batch: 60339 Date Analyzed: 2009-06-11 Analyzed By: ME
Prep Batch: 51482 QC Preparation: 2009-06-11 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.08	mg/Kg	1	2.00	104	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.63	mg/Kg	1	2.00	82	45.7 - 118.9

Method Blank (1) QC Batch: 60354

QC Batch: 60354 Date Analyzed: 2009-06-12 Analyzed By: AG
Prep Batch: 51490 QC Preparation: 2009-06-12 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		144	mg/Kg	1	100	144	13 - 178.5

Method Blank (1) QC Batch: 60398

QC Batch: 60398 Date Analyzed: 2009-06-12 Analyzed By: ME
Prep Batch: 51528 QC Preparation: 2009-06-12 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.08	mg/Kg	1	2.00	104	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	45.7 - 118.9

Method Blank (1) QC Batch: 60438

QC Batch: 60438 Date Analyzed: 2009-06-15 Analyzed By: ME
Prep Batch: 51559 QC Preparation: 2009-06-15 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.89	mg/Kg	1	2.00	94	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.95	mg/Kg	1	2.00	98	51.9 - 128.1

Laboratory Control Spike (LCS-1)

QC Batch: 60187 Date Analyzed: 2009-06-08 Analyzed By: AR
Prep Batch: 51363 QC Preparation: 2009-06-08 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<2.18	100	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	2	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: 60203 Date Analyzed: 2009-06-08 Analyzed By: ME
Prep Batch: 51377 QC Preparation: 2009-06-08 Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.79	mg/Kg	1	2.00	<0.00100	90	72.7 - 129.8
Toluene	1.82	mg/Kg	1	2.00	<0.00100	91	71.6 - 129.6
Ethylbenzene	1.79	mg/Kg	1	2.00	<0.00110	90	70.8 - 129.7
Xylene	5.38	mg/Kg	1	6.00	<0.00360	90	70.9 - 129.4

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	1.86	mg/Kg	1	2.00	<0.00100	93	72.7 - 129.8	4	20
Toluene	1.90	mg/Kg	1	2.00	<0.00100	95	71.6 - 129.6	4	20
Ethylbenzene	1.94	mg/Kg	1	2.00	<0.00110	97	70.8 - 129.7	8	20
Xylene	5.96	mg/Kg	1	6.00	<0.00360	99	70.9 - 129.4	10	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	1.88	mg/Kg	1	2.00	94	94	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.62	1.75	mg/Kg	1	2.00	81	88	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 60204 | Date Analyzed: 2009-06-08 | Analyzed By: ME
Prep Batch: 51377 | QC Preparation: 2009-06-08 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	12.7	mg/Kg	1	20.0	<0.482	64	60.5 - 100.1

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
GRO	15.2	mg/Kg	1	20.0	<0.482	76	60.5 - 100.1	18	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)	2.02	2.07	mg/Kg	1	2.00	101	104	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.38	1.50	mg/Kg	1	2.00	69	75	66.1 - 107.3

Laboratory Control Spike (LCS-1)

QC Batch: 60209 | Date Analyzed: 2009-06-08 | Analyzed By: AG
Prep Batch: 51381 | QC Preparation: 2009-06-08 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	227	mg/Kg	1	250	<5.86	91	57.4 - 133.4

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	277	mg/Kg	1	250	<5.86	111	57.4 - 133.4	20	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-Triacontane	112	121	mg/Kg	1	100	112	121	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 60226 | Date Analyzed: 2009-06-09 | Analyzed By: AR
Prep Batch: 51397 | QC Preparation: 2009-06-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.0	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.5	mg/Kg	1	100	<2.18	100	85 - 115	2	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: 60227 | Date Analyzed: 2009-06-09 | Analyzed By: AR
Prep Batch: 51398 | QC Preparation: 2009-06-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<2.18	100	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	101	mg/Kg	1	100	<2.18	101	85 - 115	1	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: 60228 | Date Analyzed: 2009-06-09 | Analyzed By: AR
Prep Batch: 51399 | QC Preparation: 2009-06-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.4	mg/Kg	1	100	<2.18	99	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	100	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 60229 | Date Analyzed: 2009-06-09 | Analyzed By: AR
Prep Batch: 51400 | QC Preparation: 2009-06-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<2.18	100	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	99.5	mg/Kg	1	100	<2.18	100	85 - 115	0	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: 60230 | Date Analyzed: 2009-06-09 | Analyzed By: AR
Prep Batch: 51401 | QC Preparation: 2009-06-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.9	mg/Kg	1	100	<2.18	99	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	99.7	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 60297 | Date Analyzed: 2009-06-10 | Analyzed By: AG
Prep Batch: 51453 | QC Preparation: 2009-06-10 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	271	mg/Kg	1	250	<5.86	108	57.4 - 133.4

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	265	mg/Kg	1	250	<5.86	106	57.4 - 133.4	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
n-Triacontane	115	109	mg/Kg	1	100	115	109	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 60299 | Date Analyzed: 2009-06-10 | Analyzed By: ME
Prep Batch: 51454 | QC Preparation: 2009-06-10 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.04	mg/Kg	1	2.00	<0.00100	102	72.7 - 129.8
Toluene	2.09	mg/Kg	1	2.00	<0.00100	104	71.6 - 129.6
Ethylbenzene	2.04	mg/Kg	1	2.00	<0.00110	102	70.8 - 129.7
Xylene	6.29	mg/Kg	1	6.00	<0.00360	105	70.9 - 129.4

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	2.16	mg/Kg	1	2.00	<0.00100	108	72.7 - 129.8	6	20
Toluene	2.25	mg/Kg	1	2.00	<0.00100	112	71.6 - 129.6	7	20
Ethylbenzene	2.31	mg/Kg	1	2.00	<0.00110	116	70.8 - 129.7	12	20
Xylene	7.13	mg/Kg	1	6.00	<0.00360	119	70.9 - 129.4	12	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)	1.92	1.96	mg/Kg	1	2.00	96	98	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.99	2.16	mg/Kg	1	2.00	100	108	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 60300 | Date Analyzed: 2009-06-10 | Analyzed By: ME
Prep Batch: 51454 | QC Preparation: 2009-06-10 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	13.1	mg/Kg	1	20.0	<0.482	66	60.5 - 100.1

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
GRO	15.5	mg/Kg	1	20.0	<0.482	78	60.5 - 100.1	17	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)	2.03	2.08	mg/Kg	1	2.00	102	104	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.58	1.70	mg/Kg	1	2.00	79	85	66.1 - 107.3

Laboratory Control Spike (LCS-1)

QC Batch: 60339 | Date Analyzed: 2009-06-11 | Analyzed By: ME
Prep Batch: 51482 | QC Preparation: 2009-06-11 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	15.5	mg/Kg	1	20.0	<0.482	78	60.5 - 100.1

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
GRO	16.5	mg/Kg	1	20.0	<0.482	82	60.5 - 100.1	6	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)	2.08	2.06	mg/Kg	1	2.00	104	103	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.69	1.75	mg/Kg	1	2.00	84	88	66.1 - 107.3

Laboratory Control Spike (LCS-1)

QC Batch: 60354 | Date Analyzed: 2009-06-12 | Analyzed By: AG
Prep Batch: 51490 | QC Preparation: 2009-06-12 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	259	mg/Kg	1	250	<5.86	104	57.4 - 133.4

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	253	mg/Kg	1	250	<5.86	101	57.4 - 133.4	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
n-Triacontane	97.3	95.4	mg/Kg	1	100	97	95	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 60398 Date Analyzed: 2009-06-12 Analyzed By: ME
Prep Batch: 51528 QC Preparation: 2009-06-12 Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	15.8	mg/Kg	1	20.0	<0.482	79	60.5 - 100.1

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
GRO	17.0	mg/Kg	1	20.0	<0.482	85	60.5 - 100.1	7	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)	2.09	2.08	mg/Kg	1	2.00	104	104	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.72	1.66	mg/Kg	1	2.00	86	83	66.1 - 107.3

Laboratory Control Spike (LCS-1)

QC Batch: 60438 Date Analyzed: 2009-06-15 Analyzed By: ME
Prep Batch: 51559 QC Preparation: 2009-06-15 Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.97	mg/Kg	1	2.00	<0.00100	98	72.7 - 129.8
Toluene	1.99	mg/Kg	1	2.00	<0.00100	100	71.6 - 129.6
Ethylbenzene	1.99	mg/Kg	1	2.00	<0.00110	100	70.8 - 129.7

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	6.10	mg/Kg	1	6.00	<0.00360	102	70.9 - 129.4

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	2.02	mg/Kg	1	2.00	<0.00100	101	72.7 - 129.8	2	20
Toluene	2.04	mg/Kg	1	2.00	<0.00100	102	71.6 - 129.6	2	20
Ethylbenzene	2.08	mg/Kg	1	2.00	<0.00110	104	70.8 - 129.7	4	20
Xylene	6.44	mg/Kg	1	6.00	<0.00360	107	70.9 - 129.4	5	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)	1.92	1.93	mg/Kg	1	2.00	96	96	65.9 - 132
4-Bromofluorobenzene (4-BFB)	2.03	2.05	mg/Kg	1	2.00	102	102	55.2 - 128.9

Matrix Spike (MS-1) Spiked Sample: 198009

QC Batch: 60187 | Date Analyzed: 2009-06-08 | Analyzed By: AR
Prep Batch: 51363 | QC Preparation: 2009-06-08 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5000	mg/Kg	50	5000	<109	100	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.	Rec. Limit	RPD	RPD Limit
Chloride	5040	mg/Kg	50	5000	<109	101	85 - 115	1	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: 198073

QC Batch: 60203 | Date Analyzed: 2009-06-08 | Analyzed By: ME
Prep Batch: 51377 | QC Preparation: 2009-06-08 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.07	mg/Kg	1	2.00	<0.00100	104	58.6 - 165.2
Toluene	2.04	mg/Kg	1	2.00	0.0585	99	64.2 - 153.8
Ethylbenzene	2.08	mg/Kg	1	2.00	0.0901	99	61.6 - 159.4

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	6.28	mg/Kg	1	6.00	0.1727	102	64.4 - 155.3

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. Limit	RPD	RPD Limit
Benzene	[12]	<0.00100	mg/Kg	1	2.00	<0.00100	0	58.6 - 165.2	200	20
Toluene	[13]	<0.00100	mg/Kg	1	2.00	0.0585	0	64.2 - 153.8	200	20
Ethylbenzene	[14]	0.129	mg/Kg	1	2.00	0.0901	2	61.6 - 159.4	177	20
Xylene	[15]	0.287	mg/Kg	1	6.00	0.1727	2	64.4 - 155.3	182	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)	1.87	1.94	mg/Kg	1	2	94	97	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.76	1.66	mg/Kg	1	2	88	83	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 198064

QC Batch: 60204 | Date Analyzed: 2009-06-08 | Analyzed By: ME
Prep Batch: 51377 | QC Preparation: 2009-06-08 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	23.8	mg/Kg	1	20.0	<0.482	119	12.8 - 175.2

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. Limit	RPD	RPD Limit
GRO	28.2	mg/Kg	1	20.0	<0.482	141	12.8 - 175.2	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)	2.04	2.16	mg/Kg	1	2	102	108	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.37	1.38	mg/Kg	1	2	68	69	31.3 - 161.7

[12]SPECIAL - MSD was not spiked •
[13]SPECIAL - MSD was not spiked •
[14]SPECIAL - MSD was not spiked •
[15]SPECIAL - MSD was not spiked •

Matrix Spike (MS-1) Spiked Sample: 198026

QC Batch: 60209 | Date Analyzed: 2009-06-08 | Analyzed By: AG
Prep Batch: 51381 | QC Preparation: 2009-06-08 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	203	mg/Kg	1	250	<5.86	81	35.2 - 167.1

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. Limit	RPD	RPD Limit
DRO	197	mg/Kg	1	250	<5.86	79	35.2 - 167.1	3	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
n-Triacontane	93.5	95.6	mg/Kg	1	100	94	96	34.5 - 178.4

Matrix Spike (MS-1) Spiked Sample: 198019

QC Batch: 60226 | Date Analyzed: 2009-06-09 | Analyzed By: AR
Prep Batch: 51397 | QC Preparation: 2009-06-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	6180	mg/Kg	50	5000	1250	99	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.	Rec. Limit	RPD	RPD Limit
Chloride	6230	mg/Kg	50	5000	1250	100	85 - 115	1	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: 198029

QC Batch: 60227 | Date Analyzed: 2009-06-09 | Analyzed By: AR
Prep Batch: 51398 | QC Preparation: 2009-06-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5970	mg/Kg	50	5000	1350	92	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.	Rec. Limit	RPD	RPD Limit
Chloride	6060	mg/Kg	50	5000	1350	94	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: 198039

QC Batch: 60228 Date Analyzed: 2009-06-09 Analyzed By: AR
Prep Batch: 51399 QC Preparation: 2009-06-09 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	6000	mg/Kg	50	5000	1170	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.	Rec. Limit	RPD	RPD Limit
Chloride	6050	mg/Kg	50	5000	1170	98	85 - 115	1	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: 198049

QC Batch: 60229 Date Analyzed: 2009-06-09 Analyzed By: AR
Prep Batch: 51400 QC Preparation: 2009-06-09 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	13400	mg/Kg	50	5000	8750	93	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.	Rec. Limit	RPD	RPD Limit
Chloride	13600	mg/Kg	50	5000	8750	97	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: 198064

QC Batch: 60230 Date Analyzed: 2009-06-09 Analyzed By: AR
Prep Batch: 51401 QC Preparation: 2009-06-09 Prepared By: AR

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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
Chloride	5190	mg/Kg	50	5000	<109	104	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.	Rec. Limit	RPD	RPD Limit
Chloride	5250	mg/Kg	50	5000	<109	105	85 - 115	1	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: 198007

QC Batch: 60297 Date Analyzed: 2009-06-10 Analyzed By: AG
Prep Batch: 51453 QC Preparation: 2009-06-10 Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	201	mg/Kg	1	250	<5.86	80	35.2 - 167.1

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. Limit	RPD	RPD Limit
DRO	210	mg/Kg	1	250	<5.86	84	35.2 - 167.1	4	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
n-Triacontane	86.9	89.1	mg/Kg	1	100	87	89	34.5 - 178.4

Matrix Spike (MS-1) Spiked Sample: 197394

QC Batch: 60299 Date Analyzed: 2009-06-10 Analyzed By: ME
Prep Batch: 51454 QC Preparation: 2009-06-10 Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	12.1	mg/Kg	5	10.0	<0.00500	121	58.6 - 165.2
Toluene	21.8	mg/Kg	5	10.0	14.0265	78	64.2 - 153.8
Ethylbenzene	20.5	mg/Kg	5	10.0	12.0165	85	61.6 - 159.4
Xylene	72.4	mg/Kg	5	30.0	47.4302	83	64.4 - 155.3

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. Limit	RPD	RPD Limit
Benzene	12.6	mg/Kg	5	10.0	<0.00500	126	58.6 - 165.2	4	20
Toluene	23.6	mg/Kg	5	10.0	14.0265	96	64.2 - 153.8	8	20
Ethylbenzene	22.6	mg/Kg	5	10.0	12.0165	106	61.6 - 159.4	10	20
Xylene	78.7	mg/Kg	5	30.0	47.4302	104	64.4 - 155.3	8	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)		9.89	9.89	mg/Kg	5	10	99	99	76 - 127.9
4-Bromofluorobenzene (4-BFB)	[16] [17]	13.1	14.0	mg/Kg	5	10	131	140	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 198314

QC Batch: 60300 | Date Analyzed: 2009-06-10 | Analyzed By: ME
Prep Batch: 51454 | QC Preparation: 2009-06-10 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	20.4	mg/Kg	1	20.0	0.9449	97	12.8 - 175.2

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. Limit	RPD	RPD Limit
GRO	[18]	31.2	mg/Kg	1	20.0	0.9449	151	12.8 - 175.2	42	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)	2.00	2.22	mg/Kg	1	2	100	111	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.43	1.50	mg/Kg	1	2	72	75	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 198316

QC Batch: 60339 | Date Analyzed: 2009-06-11 | Analyzed By: ME
Prep Batch: 51482 | QC Preparation: 2009-06-11 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	32.2	mg/Kg	1	20.0	7.6633	123	12.8 - 175.2

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

[16] High surrogate recovery due to peak interference.
[17] High surrogate recovery due to peak interference.
[18] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO [19]	23.2	mg/Kg	1	20.0	7.6633	78	12.8 - 175.2	32	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)	2.20	2.03	mg/Kg	1	2	110	102	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.65	1.45	mg/Kg	1	2	82	72	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 198021

QC Batch: 60354 | Date Analyzed: 2009-06-12 | Analyzed By: AG
Prep Batch: 51490 | QC Preparation: 2009-06-12 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO [20]	2250	mg/Kg	1	250	1120	452	35.2 - 167.1

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. Limit	RPD	RPD Limit
DRO [21]	2330	mg/Kg	1	250	1120	484	35.2 - 167.1	4	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
n-Triacontane [22] [23]	182	180	mg/Kg	1	100	182	180	34.5 - 178.4

Matrix Spike (MS-1) Spiked Sample: 198804

QC Batch: 60438 | Date Analyzed: 2009-06-15 | Analyzed By: ME
Prep Batch: 51559 | QC Preparation: 2009-06-15 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.93	mg/Kg	1	2.00	<0.00100	96	58.6 - 165.2
Toluene	1.85	mg/Kg	1	2.00	<0.00100	92	64.2 - 153.8
Ethylbenzene	1.85	mg/Kg	1	2.00	<0.00110	92	61.6 - 159.4
Xylene	5.54	mg/Kg	1	6.00	0.1469	90	64.4 - 155.3

[19] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[20] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[21] MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
[22] High surrogate recovery due to peak interference.
[23] High surrogate recovery due to peak interference.

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. Limit	RPD	RPD Limit
Benzene	1.86	mg/Kg	1	2.00	<0.00100	93	58.6 - 165.2	4	20
Toluene	1.78	mg/Kg	1	2.00	<0.00100	89	64.2 - 153.8	4	20
Ethylbenzene	1.78	mg/Kg	1	2.00	<0.00110	89	61.6 - 159.4	4	20
Xylene	5.41	mg/Kg	1	6.00	0.1469	88	64.4 - 155.3	2	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)	1.95	1.89	mg/Kg	1	2	98	94	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.56	1.50	mg/Kg	1	2	78	75	72 - 127.8

Standard (ICV-1)

QC Batch: 60187 Date Analyzed: 2009-06-08 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	2009-06-08

Standard (CCV-1)

QC Batch: 60187 Date Analyzed: 2009-06-08 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.4	99	85 - 115	2009-06-08

Standard (CCV-1)

QC Batch: 60203 Date Analyzed: 2009-06-08 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0982	98	80 - 120	2009-06-08
Toluene		mg/Kg	0.100	0.0999	100	80 - 120	2009-06-08
Ethylbenzene		mg/Kg	0.100	0.102	102	80 - 120	2009-06-08
Xylene		mg/Kg	0.300	0.312	104	80 - 120	2009-06-08

Standard (CCV-2)

QC Batch: 60203 Date Analyzed: 2009-06-08 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.106	106	80 - 120	2009-06-08
Toluene		mg/Kg	0.100	0.106	106	80 - 120	2009-06-08
Ethylbenzene		mg/Kg	0.100	0.102	102	80 - 120	2009-06-08
Xylene		mg/Kg	0.300	0.311	104	80 - 120	2009-06-08

Standard (CCV-1)

QC Batch: 60204 Date Analyzed: 2009-06-08 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.870	87	80 - 120	2009-06-08

Standard (CCV-2)

QC Batch: 60204 Date Analyzed: 2009-06-08 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	80 - 120	2009-06-08

Standard (CCV-1)

QC Batch: 60209 Date Analyzed: 2009-06-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	276	110	80 - 120	2009-06-08

Standard (CCV-2)

QC Batch: 60209 Date Analyzed: 2009-06-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	270	108	80 - 120	2009-06-08

Standard (CCV-3)

QC Batch: 60209 Date Analyzed: 2009-06-08 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	265	106	80 - 120	2009-06-08

Standard (ICV-1)

QC Batch: 60226 Date Analyzed: 2009-06-09 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.4	99	85 - 115	2009-06-09

Standard (CCV-1)

QC Batch: 60226 Date Analyzed: 2009-06-09 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	2009-06-09

Standard (ICV-1)

QC Batch: 60227 Date Analyzed: 2009-06-09 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-06-09

Standard (CCV-1)

QC Batch: 60227 Date Analyzed: 2009-06-09 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2009-06-09

Standard (ICV-1)

QC Batch: 60228 Date Analyzed: 2009-06-09 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-06-09

Standard (CCV-1)

QC Batch: 60228 Date Analyzed: 2009-06-09 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2009-06-09

Standard (ICV-1)

QC Batch: 60229 Date Analyzed: 2009-06-09 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-06-09

Standard (CCV-1)

QC Batch: 60229 Date Analyzed: 2009-06-09 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	2009-06-09

Standard (ICV-1)

QC Batch: 60230 Date Analyzed: 2009-06-09 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2009-06-09

Standard (CCV-1)

QC Batch: 60230 Date Analyzed: 2009-06-09 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	2009-06-09

Standard (CCV-1)

QC Batch: 60297 Date Analyzed: 2009-06-10 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	80 - 120	2009-06-10

Standard (CCV-2)

QC Batch: 60297 Date Analyzed: 2009-06-10 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	262	105	80 - 120	2009-06-10

Standard (CCV-3)

QC Batch: 60297 Date Analyzed: 2009-06-10 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	80 - 120	2009-06-10

Standard (CCV-1)

QC Batch: 60299 Date Analyzed: 2009-06-10 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.102	102	80 - 120	2009-06-10
Toluene		mg/Kg	0.100	0.104	104	80 - 120	2009-06-10
Ethylbenzene		mg/Kg	0.100	0.110	110	80 - 120	2009-06-10
Xylene		mg/Kg	0.300	0.338	113	80 - 120	2009-06-10

Standard (CCV-2)

QC Batch: 60299 Date Analyzed: 2009-06-10 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.100	100	80 - 120	2009-06-10
Toluene		mg/Kg	0.100	0.106	106	80 - 120	2009-06-10
Ethylbenzene		mg/Kg	0.100	0.115	115	80 - 120	2009-06-10
Xylene		mg/Kg	0.300	0.356	119	80 - 120	2009-06-10

Standard (CCV-1)

QC Batch: 60300 Date Analyzed: 2009-06-10 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.940	94	80 - 120	2009-06-10

Standard (CCV-2)

QC Batch: 60300 Date Analyzed: 2009-06-10 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.930	93	80 - 120	2009-06-10

Standard (CCV-1)

QC Batch: 60339 Date Analyzed: 2009-06-11 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.04	104	80 - 120	2009-06-11

Standard (CCV-2)

QC Batch: 60339 Date Analyzed: 2009-06-11 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	80 - 120	2009-06-11

Standard (CCV-1)

QC Batch: 60354 Date Analyzed: 2009-06-12 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	254	102	80 - 120	2009-06-12

Standard (CCV-2)

QC Batch: 60354 Date Analyzed: 2009-06-12 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	212	85	80 - 120	2009-06-12

Standard (CCV-1)

QC Batch: 60398 Date Analyzed: 2009-06-12 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.19	119	80 - 120	2009-06-12

Standard (CCV-2)

QC Batch: 60398 Date Analyzed: 2009-06-12 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.19	119	80 - 120	2009-06-12

Standard (CCV-1)

QC Batch: 60438 Date Analyzed: 2009-06-15 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	80 - 120	2009-06-15
Toluene		mg/Kg	0.100	0.104	104	80 - 120	2009-06-15
Ethylbenzene		mg/Kg	0.100	0.108	108	80 - 120	2009-06-15
Xylene		mg/Kg	0.300	0.334	111	80 - 120	2009-06-15

Standard (CCV-2)

QC Batch: 60438 Date Analyzed: 2009-06-15 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.100	100	80 - 120	2009-06-15
Toluene		mg/Kg	0.100	0.0990	99	80 - 120	2009-06-15
Ethylbenzene		mg/Kg	0.100	0.0974	97	80 - 120	2009-06-15
Xylene		mg/Kg	0.300	0.300	100	80 - 120	2009-06-15

Trace # 90002 1

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 5

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400210

PROJECT NAME: RJU #119 Flow line spill

LAB I.D. NUMBER	DATE 2009	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH TX1005 (Ext. to C35) (TPH) 8015 MOD.	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
198009	6/4		S		X	BG-1 0-1'	1				X		~~X~~	~~X~~		~~Cr~~									X				
010						BG-1 2-2.5'	1				X														X				
011						BG-1 3-3.5'	1				X														X				
012						AH-1 0-1' BEB	1				X			X											X				
013						AH-1 1-1.5' BEB	1				X														X				
014						AH-1 2-2.5' BEB	1				X														X				
015						AH-1 3-3.5' BEB	1				X														X				
016						AH-1 4-4.5' BEB	1				X														X				
017						AH-1 5-5.5' BEB	1				X														X				
018	↓		↓		↓	AH-1 6-6.5' BEB	1				X														X				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature)	Date: 6/5/09 Time: 1440	RECEIVED BY: (Signature)	Date: Time:	SAMPLED BY: (Print & Initial) IT / KD Date: 6/4/09 Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:	SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:	TETRA TECH CONTACT PERSON: Ike Tavarez Results by:
RECEIVING LABORATORY: TRACE ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE:		RECEIVED BY: (Signature) Melanie Batten DATE: 6-5-09 TIME: 14:40		RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 13.1°C

REMARKS: Run deeper Samples if TPH exceed 5,000 mg/kg.

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

Run (4) BTEX on Samples w highest TPH.

AR

400527

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400210

PROJECT NAME: RJU #119 Flowline Spill

LAB I.D. NUMBER	DATE 2009	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD (Ext. to C35) TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
198019	6/4		S		X	AH-2 0-1' BEB	1				X			X											X				
020	6/4		S		X	AH-2 1-1.5' BEB	1				X														X				
021	6/4		S		X	AH-2 2-2.5' BEB	1				X														X				
022	6/4		S		X	AH-2 3-3.5' BEB	1				X														X				
023	6/4		S		X	AH-2 4-4.5' BEB	1				X														X				
024	6/4		S		X	AH-2 5-5.5' BEB	1				X														X				
025	6/4		S		X	AH-2 6-6.5' BEB	1				X														X				
026	6/4		S		X	AH-3 0-1' BEB	1				X			X											X				
027	6/4		S		X	AH-3 1-1.5' BEB	1				X														X				
028	6/4		S		X	AH-3 2-2.5' BEB	1				X														X				

RELINQUISHED BY: (Signature) Date: 6/5/09 Time: 1440

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) IT KD Date: 6/4/09 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RECEIVING LABORATORY: TRACE

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Melanie Ballin

DATE: 6-5-09 TIME: 14:40

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 13.1°C

REMARKS:

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

AR

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: #114-6400210

PROJECT NAME: RJU #119 Flowline Spill

LAB I.D. NUMBER	DATE 2009	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	ANALYSIS REQUEST: BTEX 8021B	TPH TX1005 (Ext. to C35) / 8015 MOD	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8081/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
198029	6/4		S		X	AH-3 3-3.5' BEB	1				X														X				
030	6/4		S		X	AH-3 4-4.5' BEB	1				X														X				
031	6/4		S		X	AH-3 5-5.5' BEB	1				X														X				
032	6/4		S		X	AH-3 6-6.5' BEB	1				X														X				
033	6/4		S		X	AH-4 0-1' BEB	1				X			X											X				
034	6/4		S		X	AH-4 1-1.5' BEB	1				X														X				
035	6/4		S		X	AH-4 2-2.5' BEB	1				X														X				
036	6/4		S		X	AH-4 3-3.5' BEB	1				X														X				
037	6/4		S		X	AH-4 4-4.5' BEB	1				X														X				
038	6/4		S		X	AH-4 5-5.5' BEB	1				X														X				

RELINQUISHED BY: (Signature) Date: 6/5/09 Time: 1450

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) IT KD Date: 6/4/09 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: TRACE

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Melanie Batton

DATE: 6-5-09 TIME: 14:40

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 13.1°C

REMARKS:

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

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: #114-6400210

PROJECT NAME: RJU #119 Flowline Spill

LAB I.D. NUMBER	DATE 2009	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. (Ext. to C35) TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
198039	6/4		S		X	AH-5 0-1' BEB	1				X			X											X				
040						AH-5 1-1.5' BEB	1				X														X				
041						AH-5 2-2.5' BEB	1				X														X				
042						AH-5 3-3.5' BEB	1				X														X				
043						AH-5 4-4.5' BEB	1				X														X				
044						AH-5 5-5.5' BEB	1				X														X				
045						AH-5 6-6.5' BEB	1				X														X				
046						AH-5 7-7.5' BEB	1				X														X				
047						AH-5 8-8.5' BEB	1				X														X				
048						AH-6 9-1' BEB	1				X			X											X				

RELINQUISHED BY: (Signature) Date: 6/5/09 Time: 1440 — RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) IT KD Date: 6/4/09 Time:

RELINQUISHED BY: (Signature) Date: Time: — RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time: — RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: TRACE
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Stephanie Ballin
DATE: 6-5-09 TIME: 14:40

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 13.1°C

REMARKS:

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

AR

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: #114-6400210

PROJECT NAME: RJU #119 Flowline Spill

LAB I.D. NUMBER	DATE 2009	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD (Ext. to C35)	TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
198049	6/4		S		X	AH-6 1-1.5' BEB	1				X															X				
050						AH-6 2-2.5' BEB	1				X															X				
051						AH-6 3-3.5' BEB	1				X															X				
052						AH-6 4-4.5' BEB	1				X															X				
053						AH-6 5-5.5' BEB	1				X															X				
054						AH-6 6-6.5' BEB	1				X															X				
055						AH-7 0-1' BEB	1				X			X												X				
056						AH-7 1-1.5' BEB	1				X															X				
057						AH-7 2-2.5' BEB	1				X															X				
058						AH-7 3-3.5' BEB	1				X															X				

RELINQUISHED BY: (Signature) Date: 6/7/09 Time: 1440

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) IT KD Date: 6/4/09 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RECEIVING LABORATORY: ATRACE

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Melissa Batten

DATE: 6-5-09 TIME: 14:40

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 13.1 °C

REMARKS:

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

AR

Summary Report

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

Report Date: July 8, 2009

Work Order: 9070243

Project Name: RJU Unit #119
Project Number: 114-6400210

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
201081	SB-1 (5-6')	soil	2009-06-30	00:00	2009-07-02
201082	SB-1 (8-9')	soil	2009-06-30	00:00	2009-07-02
201083	SB-1 (11-12')	soil	2009-06-30	00:00	2009-07-02
201084	SB-1 (13-14')	soil	2009-06-30	00:00	2009-07-02
201085	SB-1 (15-16')	soil	2009-06-30	00:00	2009-07-02
201086	SB-1 (20-21')	soil	2009-06-30	00:00	2009-07-02
201087	SB-1 (25-26')	soil	2009-06-30	00:00	2009-07-02
201088	SB-1 (30-31')	soil	2009-06-30	00:00	2009-07-02
201089	SB-1 (35-36')	soil	2009-06-30	00:00	2009-07-02
201090	SB-2 (5-6')	soil	2009-06-30	00:00	2009-07-02
201091	SB-2 (8-9')	soil	2009-06-30	00:00	2009-07-02
201092	SB-2 (11-12')	soil	2009-06-30	00:00	2009-07-02
201093	SB-2 (13-14')	soil	2009-06-30	00:00	2009-07-02
201094	SB-2 (15-16')	soil	2009-06-30	00:00	2009-07-02
201095	SB-3 (5-6')	soil	2009-06-30	00:00	2009-07-02
201096	SB-3 (8-9')	soil	2009-06-30	00:00	2009-07-02
201097	SB-3 (11-12')	soil	2009-06-30	00:00	2009-07-02
201098	SB-3 (13-14')	soil	2009-06-30	00:00	2009-07-02
201099	SB-3 (15-16')	soil	2009-06-30	00:00	2009-07-02
201100	SB-3 (20-21')	soil	2009-06-30	00:00	2009-07-02
201101	SB-3 (25-26')	soil	2009-06-30	00:00	2009-07-02
201102	SB-4 (0-1')	soil	2009-06-30	00:00	2009-07-02
201103	SB-4 (2-3')	soil	2009-06-30	00:00	2009-07-02
201104	SB-4 (5-6')	soil	2009-06-30	00:00	2009-07-02
201105	SB-4 (8-9')	soil	2009-06-30	00:00	2009-07-02
201106	SB-5 (3-4')	soil	2009-06-30	00:00	2009-07-02
201107	SB-5 (5-6')	soil	2009-06-30	00:00	2009-07-02
201108	SB-5 (8-9')	soil	2009-06-30	00:00	2009-07-02
201109	SB-5 (11-12')	soil	2009-06-30	00:00	2009-07-02
201110	SB-5 (13-14')	soil	2009-06-30	00:00	2009-07-02
201111	SB-5 (15-16')	soil	2009-06-30	00:00	2009-07-02

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
201112	SB-5 (20-21')	soil	2009-06-30	00:00	2009-07-02
201113	SB-5 (25-26')	soil	2009-06-30	00:00	2009-07-02
201114	SB-6 (0-1')	soil	2009-06-30	00:00	2009-07-02
201115	SB-6 (2-3')	soil	2009-06-30	00:00	2009-07-02
201116	SB-6 (5-6')	soil	2009-06-30	00:00	2009-07-02
201117	SB-6 (8-9')	soil	2009-06-30	00:00	2009-07-02
201118	SB-6 (11-12')	soil	2009-06-30	00:00	2009-07-02
201119	SB-6 (13-14')	soil	2009-06-30	00:00	2009-07-02
201120	SB-6 (15-16')	soil	2009-06-30	00:00	2009-07-02
201121	SB-6 (20-21')	soil	2009-06-30	00:00	2009-07-02
201122	SB-6 (25-26')	soil	2009-06-30	00:00	2009-07-02
201123	SB-6 (30-31')	soil	2009-06-30	00:00	2009-07-02
201124	SB-7 (5-6')	soil	2009-07-01	00:00	2009-07-02
201125	SB-7 (8-9')	soil	2009-07-01	00:00	2009-07-02
201126	SB-7 (11-12')	soil	2009-07-01	00:00	2009-07-02
201127	SB-7 (13-14')	soil	2009-07-01	00:00	2009-07-02
201128	SB-7 (15-16')	soil	2009-07-01	00:00	2009-07-02
201129	SB-7 (20-21')	soil	2009-07-01	00:00	2009-07-02
201130	SB-7 (25-26')	soil	2009-07-01	00:00	2009-07-02
201131	SB-7 (30-31')	soil	2009-07-01	00:00	2009-07-02
201132	SB-8 (0-1')	soil	2009-07-01	00:00	2009-07-02
201133	SB-8 (2-3')	soil	2009-07-01	00:00	2009-07-02
201134	SB-8 (5-6')	soil	2009-07-01	00:00	2009-07-02
201135	SB-8 (8-9')	soil	2009-07-01	00:00	2009-07-02
201136	SB-8 (11-12')	soil	2009-07-01	00:00	2009-07-02
201137	SB-8 (13-14')	soil	2009-07-01	00:00	2009-07-02
201138	SB-8 (15-16')	soil	2009-07-01	00:00	2009-07-02
201139	SB-8 (20-21')	soil	2009-07-01	00:00	2009-07-02
201140	SB-8 (25-26')	soil	2009-07-01	00:00	2009-07-02
201141	SB-8 (30-31')	soil	2009-07-01	00:00	2009-07-02
201142	SB-9 (5-6')	soil	2009-07-01	00:00	2009-07-02
201143	SB-9 (8-9')	soil	2009-07-01	00:00	2009-07-02
201144	SB-9 (11-12')	soil	2009-07-01	00:00	2009-07-02
201145	SB-9 (13-14')	soil	2009-07-01	00:00	2009-07-02
201146	SB-9 (15-16')	soil	2009-07-01	00:00	2009-07-02
201147	SB-9 (20-21')	soil	2009-07-01	00:00	2009-07-02
201148	SB-9 (25-26')	soil	2009-07-01	00:00	2009-07-02
201149	SB-9 (30-31')	soil	2009-07-01	00:00	2009-07-02
201150	SB-10 (0-1')	soil	2009-07-01	00:00	2009-07-02
201151	SB-10 (2-3')	soil	2009-07-01	00:00	2009-07-02
201152	SB-10 (5-6')	soil	2009-07-01	00:00	2009-07-02
201153	SB-10 (8-9')	soil	2009-07-01	00:00	2009-07-02
201154	SB-10 (11-12')	soil	2009-07-01	00:00	2009-07-02
201155	SB-10 (13-14')	soil	2009-07-01	00:00	2009-07-02
201156	SB-10 (15-16')	soil	2009-07-01	00:00	2009-07-02
201157	SB-10 (20-21')	soil	2009-07-01	00:00	2009-07-02
201158	SB-10 (25-26')	soil	2009-07-01	00:00	2009-07-02
201159	SB-10 (30-31')	soil	2009-07-01	00:00	2009-07-02
201160	SB-10 (35-36')	soil	2009-07-01	00:00	2009-07-02

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
201161	SB-11 (5-6')	soil	2009-07-01	00:00	2009-07-02
201162	SB-11 (8-9')	soil	2009-07-01	00:00	2009-07-02
201163	SB-11 (11-12')	soil	2009-07-01	00:00	2009-07-02
201164	SB-11 (13-14')	soil	2009-07-01	00:00	2009-07-02
201165	SB-11 (15-16')	soil	2009-07-01	00:00	2009-07-02
201166	SB-11 (20-21')	soil	2009-07-01	00:00	2009-07-02
201167	SB-11 (25-26')	soil	2009-07-01	00:00	2009-07-02
201168	SB-11 (30-31')	soil	2009-07-01	00:00	2009-07-02
201169	SB-4 (11-12')	soil	2009-06-30	00:00	2009-07-02
201170	SB-4 (13-14')	soil	2009-06-30	00:00	2009-07-02
201171	SB-4 (15-16')	soil	2009-06-30	00:00	2009-07-02
201172	SB-4 (20-21')	soil	2009-06-30	00:00	2009-07-02
201173	SB-4 (25-26')	soil	2009-06-30	00:00	2009-07-02

	BTEX				TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
201102 - SB-4 (0-1')	<0.0500	**7.52**	**19.5**	**43.0**	**1160**	**736**
201103 - SB-4 (2-3')	<0.100	**7.19**	**20.1**	**37.2**	**691**	**817**
201104 - SB-4 (5-6')	<0.0500	**6.06**	**23.2**	**34.0**		
201105 - SB-4 (8-9')	<0.0100	<0.0100	<0.0100	<0.0100		
201106 - SB-5 (3-4')	<0.0100	<0.0100	<0.0100	<0.0100		

Sample: 201081 - SB-1 (5-6')

Param	Flag	Result	Units	RL
Chloride		**1190**	mg/Kg	4.00

Sample: 201082 - SB-1 (8-9')

Param	Flag	Result	Units	RL
Chloride		**1630**	mg/Kg	4.00

Sample: 201083 - SB-1 (11-12')

Param	Flag	Result	Units	RL
Chloride		**6240**	mg/Kg	4.00

Sample: 201084 - SB-1 (13-14')

Param	Flag	Result	Units	RL
Chloride		**2760**	mg/Kg	4.00

Sample: 201085 - SB-1 (15-16')

Param	Flag	Result	Units	RL
Chloride		**4210**	mg/Kg	4.00

Sample: 201086 - SB-1 (20-21')

Param	Flag	Result	Units	RL
Chloride		**1870**	mg/Kg	4.00

Sample: 201087 - SB-1 (25-26')

Param	Flag	Result	Units	RL
Chloride		**1290**	mg/Kg	4.00

Sample: 201088 - SB-1 (30-31')

Param	Flag	Result	Units	RL
Chloride		**706**	mg/Kg	4.00

Sample: 201089 - SB-1 (35-36')

Param	Flag	Result	Units	RL
Chloride		**406**	mg/Kg	4.00

Sample: 201090 - SB-2 (5-6')

Param	Flag	Result	Units	RL
Chloride		**3990**	mg/Kg	4.00

Sample: 201091 - SB-2 (8-9')

Param	Flag	Result	Units	RL
Chloride		**3290**	mg/Kg	4.00

Sample: 201092 - SB-2 (11-12')

Param	Flag	Result	Units	RL
Chloride		**590**	mg/Kg	4.00

Sample: 201093 - SB-2 (13-14')

Param	Flag	Result	Units	RL
Chloride		**207**	mg/Kg	4.00

Sample: 201094 - SB-2 (15-16')

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

Sample: 201095 - SB-3 (5-6')

Param	Flag	Result	Units	RL
Chloride		**1430**	mg/Kg	4.00

Sample: 201096 - SB-3 (8-9')

Param	Flag	Result	Units	RL
Chloride		**2880**	mg/Kg	4.00

Sample: 201097 - SB-3 (11-12')

Param	Flag	Result	Units	RL
Chloride		**2820**	mg/Kg	4.00

Sample: 201098 - SB-3 (13-14')

Param	Flag	Result	Units	RL
Chloride		**2250**	mg/Kg	4.00

Sample: 201099 - SB-3 (15-16')

Param	Flag	Result	Units	RL
Chloride		**1980**	mg/Kg	4.00

Sample: 201100 - SB-3 (20-21')

Param	Flag	Result	Units	RL
Chloride		**993**	mg/Kg	4.00

Sample: 201101 - SB-3 (25-26')

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

Sample: 201102 - SB-4 (0-1')

Param	Flag	Result	Units	RL
Chloride		**1070**	mg/Kg	4.00

Sample: 201103 - SB-4 (2-3')

Param	Flag	Result	Units	RL
Chloride		**1520**	mg/Kg	4.00

Sample: 201104 - SB-4 (5-6')

Param	Flag	Result	Units	RL
Chloride		**1390**	mg/Kg	4.00

Sample: 201105 - SB-4 (8-9')

Param	Flag	Result	Units	RL
Chloride		**1860**	mg/Kg	4.00

Sample: 201106 - SB-5 (3-4')

Param	Flag	Result	Units	RL
Chloride		**2670**	mg/Kg	4.00

Sample: 201107 - SB-5 (5-6')

Param	Flag	Result	Units	RL
Chloride		**1790**	mg/Kg	4.00

Sample: 201108 - SB-5 (8-9')

Param	Flag	Result	Units	RL
Chloride		**2950**	mg/Kg	4.00

Sample: 201109 - SB-5 (11-12')

Param	Flag	Result	Units	RL
Chloride		**3660**	mg/Kg	4.00

Sample: 201110 - SB-5 (13-14')

Param	Flag	Result	Units	RL
Chloride		**5090**	mg/Kg	4.00

Sample: 201111 - SB-5 (15-16')

Param	Flag	Result	Units	RL
Chloride		**5090**	mg/Kg	4.00

Sample: 201112 - SB-5 (20-21')

Param	Flag	Result	Units	RL
Chloride		**2600**	mg/Kg	4.00

Sample: 201113 - SB-5 (25-26')

Param	Flag	Result	Units	RL
Chloride		**386**	mg/Kg	4.00

Sample: 201114 - SB-6 (0-1')

Param	Flag	Result	Units	RL
Chloride		**1380**	mg/Kg	4.00

Sample: 201115 - SB-6 (2-3')

Param	Flag	Result	Units	RL
Chloride		**10200**	mg/Kg	4.00

Sample: 201116 - SB-6 (5-6')

Param	Flag	Result	Units	RL
Chloride		**5910**	mg/Kg	4.00

Sample: 201117 - SB-6 (8-9')

Param	Flag	Result	Units	RL
Chloride		**6300**	mg/Kg	4.00

Sample: 201118 - SB-6 (11-12')

Param	Flag	Result	Units	RL
Chloride		**2430**	mg/Kg	4.00

Sample: 201119 - SB-6 (13-14')

Param	Flag	Result	Units	RL
Chloride		**1850**	mg/Kg	4.00

Sample: 201120 - SB-6 (15-16')

Param	Flag	Result	Units	RL
Chloride		**436**	mg/Kg	4.00

Sample: 201121 - SB-6 (20-21')

Param	Flag	Result	Units	RL
Chloride		**421**	mg/Kg	4.00

Sample: 201122 - SB-6 (25-26')

Param	Flag	Result	Units	RL
Chloride		**389**	mg/Kg	4.00

Sample: 201123 - SB-6 (30-31')

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

Sample: 201124 - SB-7 (5-6')

Param	Flag	Result	Units	RL
Chloride		**6230**	mg/Kg	4.00

Sample: 201125 - SB-7 (8-9')

Param	Flag	Result	Units	RL
Chloride		**4100**	mg/Kg	4.00

Sample: 201126 - SB-7 (11-12')

Param	Flag	Result	Units	RL
Chloride		**3180**	mg/Kg	4.00

Sample: 201127 - SB-7 (13-14')

Param	Flag	Result	Units	RL
Chloride		**1820**	mg/Kg	4.00

Sample: 201128 - SB-7 (15-16')

Param	Flag	Result	Units	RL
Chloride		**1590**	mg/Kg	4.00

Sample: 201129 - SB-7 (20-21')

Param	Flag	Result	Units	RL
Chloride		**1180**	mg/Kg	4.00

Sample: 201130 - SB-7 (25-26')

Param	Flag	Result	Units	RL
Chloride		**952**	mg/Kg	4.00

Sample: 201131 - SB-7 (30-31')

Param	Flag	Result	Units	RL
Chloride		**309**	mg/Kg	4.00

Sample: 201132 - SB-8 (0-1')

Param	Flag	Result	Units	RL
Chloride		**10700**	mg/Kg	4.00

Sample: 201133 - SB-8 (2-3')

Param	Flag	Result	Units	RL
Chloride		**3980**	mg/Kg	4.00

Sample: 201134 - SB-8 (5-6')

Param	Flag	Result	Units	RL
Chloride		**3120**	mg/Kg	4.00

Sample: 201135 - SB-8 (8-9')

Param	Flag	Result	Units	RL
Chloride		**3390**	mg/Kg	4.00

Sample: 201136 - SB-8 (11-12')

Param	Flag	Result	Units	RL
Chloride		**3130**	mg/Kg	4.00

Sample: 201137 - SB-8 (13-14')

Param	Flag	Result	Units	RL
Chloride		**4020**	mg/Kg	4.00

Sample: 201138 - SB-8 (15-16')

Param	Flag	Result	Units	RL
Chloride		**5120**	mg/Kg	4.00

Sample: 201139 - SB-8 (20-21')

Param	Flag	Result	Units	RL
Chloride		**4480**	mg/Kg	4.00

Sample: 201140 - SB-8 (25-26')

Param	Flag	Result	Units	RL
Chloride		**275**	mg/Kg	4.00

Sample: 201141 - SB-8 (30-31')

Param	Flag	Result	Units	RL
Chloride		**310**	mg/Kg	4.00

Sample: 201142 - SB-9 (5-6')

Param	Flag	Result	Units	RL
Chloride		**2080**	mg/Kg	4.00

Sample: 201143 - SB-9 (8-9')

Param	Flag	Result	Units	RL
Chloride		**3030**	mg/Kg	4.00

Sample: 201144 - SB-9 (11-12')

Param	Flag	Result	Units	RL
Chloride		**3150**	mg/Kg	4.00

Sample: 201145 - SB-9 (13-14')

Param	Flag	Result	Units	RL
Chloride		**2370**	mg/Kg	4.00

Sample: 201146 - SB-9 (15-16')

Param	Flag	Result	Units	RL
Chloride		**2260**	mg/Kg	4.00

Sample: 201147 - SB-9 (20-21')

Param	Flag	Result	Units	RL
Chloride		**5250**	mg/Kg	4.00

Sample: 201148 - SB-9 (25-26')

Param	Flag	Result	Units	RL
Chloride		**838**	mg/Kg	4.00

Sample: 201149 - SB-9 (30-31')

Param	Flag	Result	Units	RL
Chloride		**486**	mg/Kg	4.00

Sample: 201150 - SB-10 (0-1')

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

Sample: 201151 - SB-10 (2-3')

Param	Flag	Result	Units	RL
Chloride		**527**	mg/Kg	4.00

Sample: 201152 - SB-10 (5-6')

Param	Flag	Result	Units	RL
Chloride		**1150**	mg/Kg	4.00

Sample: 201153 - SB-10 (8-9')

Param	Flag	Result	Units	RL
Chloride		**2360**	mg/Kg	4.00

Sample: 201154 - SB-10 (11-12')

Param	Flag	Result	Units	RL
Chloride		**9190**	mg/Kg	4.00

Sample: 201155 - SB-10 (13-14')

Param	Flag	Result	Units	RL
Chloride		**7050**	mg/Kg	4.00

Sample: 201156 - SB-10 (15-16')

Param	Flag	Result	Units	RL
Chloride		**4920**	mg/Kg	4.00

Sample: 201157 - SB-10 (20-21')

Param	Flag	Result	Units	RL
Chloride		**3620**	mg/Kg	4.00

Sample: 201158 - SB-10 (25-26')

Param	Flag	Result	Units	RL
Chloride		**2140**	mg/Kg	4.00

Sample: 201159 - SB-10 (30-31')

Param	Flag	Result	Units	RL
Chloride		**709**	mg/Kg	4.00

Sample: 201160 - SB-10 (35-36')

Param	Flag	Result	Units	RL
Chloride		**274**	mg/Kg	4.00

Sample: 201161 - SB-11 (5-6')

Param	Flag	Result	Units	RL
Chloride		**3820**	mg/Kg	4.00

Sample: 201162 - SB-11 (8-9')

Param	Flag	Result	Units	RL
Chloride		**4030**	mg/Kg	4.00

Sample: 201163 - SB-11 (11-12')

Param	Flag	Result	Units	RL
Chloride		**9070**	mg/Kg	4.00

Sample: 201164 - SB-11 (13-14')

Param	Flag	Result	Units	RL
Chloride		**4930**	mg/Kg	4.00

Sample: 201165 - SB-11 (15-16')

Param	Flag	Result	Units	RL
Chloride		**3750**	mg/Kg	4.00

Sample: 201166 - SB-11 (20-21')

Param	Flag	Result	Units	RL
Chloride		**1330**	mg/Kg	4.00

Sample: 201167 - SB-11 (25-26')

Param	Flag	Result	Units	RL
Chloride		**310**	mg/Kg	4.00

Sample: 201168 - SB-11 (30-31')

Param	Flag	Result	Units	RL
Chloride		**284**	mg/Kg	4.00

Sample: 201169 - SB-4 (11-12')

Param	Flag	Result	Units	RL
Chloride		**1790**	mg/Kg	4.00

Sample: 201170 - SB-4 (13-14')

Param	Flag	Result	Units	RL
Chloride		**966**	mg/Kg	4.00

Sample: 201171 - SB-4 (15-16')

Param	Flag	Result	Units	RL
Chloride		**518**	mg/Kg	4.00

Sample: 201172 - SB-4 (20-21')

Param	Flag	Result	Units	RL
Chloride		**510**	mg/Kg	4.00

TRACEANALYSIS, INC.

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Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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: July 8, 2009

Work Order: 9070243

Project Name: RJU Unit #119
Project Number: 114-6400210

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
201081	SB-1 (5-6')	soil	2009-06-30	00:00	2009-07-02
201082	SB-1 (8-9')	soil	2009-06-30	00:00	2009-07-02
201083	SB-1 (11-12')	soil	2009-06-30	00:00	2009-07-02
201084	SB-1 (13-14')	soil	2009-06-30	00:00	2009-07-02
201085	SB-1 (15-16')	soil	2009-06-30	00:00	2009-07-02
201086	SB-1 (20-21')	soil	2009-06-30	00:00	2009-07-02
201087	SB-1 (25-26')	soil	2009-06-30	00:00	2009-07-02
201088	SB-1 (30-31')	soil	2009-06-30	00:00	2009-07-02
201089	SB-1 (35-36')	soil	2009-06-30	00:00	2009-07-02
201090	SB-2 (5-6')	soil	2009-06-30	00:00	2009-07-02
201091	SB-2 (8-9')	soil	2009-06-30	00:00	2009-07-02

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
201092	SB-2 (11-12')	soil	2009-06-30	00:00	2009-07-02
201093	SB-2 (13-14')	soil	2009-06-30	00:00	2009-07-02
201094	SB-2 (15-16')	soil	2009-06-30	00:00	2009-07-02
201095	SB-3 (5-6')	soil	2009-06-30	00:00	2009-07-02
201096	SB-3 (8-9')	soil	2009-06-30	00:00	2009-07-02
201097	SB-3 (11-12')	soil	2009-06-30	00:00	2009-07-02
201098	SB-3 (13-14')	soil	2009-06-30	00:00	2009-07-02
201099	SB-3 (15-16')	soil	2009-06-30	00:00	2009-07-02
201100	SB-3 (20-21')	soil	2009-06-30	00:00	2009-07-02
201101	SB-3 (25-26')	soil	2009-06-30	00:00	2009-07-02
201102	SB-4 (0-1')	soil	2009-06-30	00:00	2009-07-02
201103	SB-4 (2-3')	soil	2009-06-30	00:00	2009-07-02
201104	SB-4 (5-6')	soil	2009-06-30	00:00	2009-07-02
201105	SB-4 (8-9')	soil	2009-06-30	00:00	2009-07-02
201106	SB-5 (3-4')	soil	2009-06-30	00:00	2009-07-02
201107	SB-5 (5-6')	soil	2009-06-30	00:00	2009-07-02
201108	SB-5 (8-9')	soil	2009-06-30	00:00	2009-07-02
201109	SB-5 (11-12')	soil	2009-06-30	00:00	2009-07-02
201110	SB-5 (13-14')	soil	2009-06-30	00:00	2009-07-02
201111	SB-5 (15-16')	soil	2009-06-30	00:00	2009-07-02
201112	SB-5 (20-21')	soil	2009-06-30	00:00	2009-07-02
201113	SB-5 (25-26')	soil	2009-06-30	00:00	2009-07-02
201114	SB-6 (0-1')	soil	2009-06-30	00:00	2009-07-02
201115	SB-6 (2-3')	soil	2009-06-30	00:00	2009-07-02
201116	SB-6 (5-6')	soil	2009-06-30	00:00	2009-07-02
201117	SB-6 (8-9')	soil	2009-06-30	00:00	2009-07-02
201118	SB-6 (11-12')	soil	2009-06-30	00:00	2009-07-02
201119	SB-6 (13-14')	soil	2009-06-30	00:00	2009-07-02
201120	SB-6 (15-16')	soil	2009-06-30	00:00	2009-07-02
201121	SB-6 (20-21')	soil	2009-06-30	00:00	2009-07-02
201122	SB-6 (25-26')	soil	2009-06-30	00:00	2009-07-02
201123	SB-6 (30-31')	soil	2009-06-30	00:00	2009-07-02
201124	SB-7 (5-6')	soil	2009-07-01	00:00	2009-07-02
201125	SB-7 (8-9')	soil	2009-07-01	00:00	2009-07-02
201126	SB-7 (11-12')	soil	2009-07-01	00:00	2009-07-02
201127	SB-7 (13-14')	soil	2009-07-01	00:00	2009-07-02
201128	SB-7 (15-16')	soil	2009-07-01	00:00	2009-07-02
201129	SB-7 (20-21')	soil	2009-07-01	00:00	2009-07-02
201130	SB-7 (25-26')	soil	2009-07-01	00:00	2009-07-02
201131	SB-7 (30-31')	soil	2009-07-01	00:00	2009-07-02
201132	SB-8 (0-1')	soil	2009-07-01	00:00	2009-07-02
201133	SB-8 (2-3')	soil	2009-07-01	00:00	2009-07-02
201134	SB-8 (5-6')	soil	2009-07-01	00:00	2009-07-02
201135	SB-8 (8-9')	soil	2009-07-01	00:00	2009-07-02
201136	SB-8 (11-12')	soil	2009-07-01	00:00	2009-07-02
201137	SB-8 (13-14')	soil	2009-07-01	00:00	2009-07-02

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
201138	SB-8 (15-16')	soil	2009-07-01	00:00	2009-07-02
201139	SB-8 (20-21')	soil	2009-07-01	00:00	2009-07-02
201140	SB-8 (25-26')	soil	2009-07-01	00:00	2009-07-02
201141	SB-8 (30-31')	soil	2009-07-01	00:00	2009-07-02
201142	SB-9 (5-6')	soil	2009-07-01	00:00	2009-07-02
201143	SB-9 (8-9')	soil	2009-07-01	00:00	2009-07-02
201144	SB-9 (11-12')	soil	2009-07-01	00:00	2009-07-02
201145	SB-9 (13-14')	soil	2009-07-01	00:00	2009-07-02
201146	SB-9 (15-16')	soil	2009-07-01	00:00	2009-07-02
201147	SB-9 (20-21')	soil	2009-07-01	00:00	2009-07-02
201148	SB-9 (25-26')	soil	2009-07-01	00:00	2009-07-02
201149	SB-9 (30-31')	soil	2009-07-01	00:00	2009-07-02
201150	SB-10 (0-1')	soil	2009-07-01	00:00	2009-07-02
201151	SB-10 (2-3')	soil	2009-07-01	00:00	2009-07-02
201152	SB-10 (5-6')	soil	2009-07-01	00:00	2009-07-02
201153	SB-10 (8-9')	soil	2009-07-01	00:00	2009-07-02
201154	SB-10 (11-12')	soil	2009-07-01	00:00	2009-07-02
201155	SB-10 (13-14')	soil	2009-07-01	00:00	2009-07-02
201156	SB-10 (15-16')	soil	2009-07-01	00:00	2009-07-02
201157	SB-10 (20-21')	soil	2009-07-01	00:00	2009-07-02
201158	SB-10 (25-26')	soil	2009-07-01	00:00	2009-07-02
201159	SB-10 (30-31')	soil	2009-07-01	00:00	2009-07-02
201160	SB-10 (35-36')	soil	2009-07-01	00:00	2009-07-02
201161	SB-11 (5-6')	soil	2009-07-01	00:00	2009-07-02
201162	SB-11 (8-9')	soil	2009-07-01	00:00	2009-07-02
201163	SB-11 (11-12')	soil	2009-07-01	00:00	2009-07-02
201164	SB-11 (13-14')	soil	2009-07-01	00:00	2009-07-02
201165	SB-11 (15-16')	soil	2009-07-01	00:00	2009-07-02
201166	SB-11 (20-21')	soil	2009-07-01	00:00	2009-07-02
201167	SB-11 (25-26')	soil	2009-07-01	00:00	2009-07-02
201168	SB-11 (30-31')	soil	2009-07-01	00:00	2009-07-02
201169	SB-4 (11-12')	soil	2009-06-30	00:00	2009-07-02
201170	SB-4 (13-14')	soil	2009-06-30	00:00	2009-07-02
201171	SB-4 (15-16')	soil	2009-06-30	00:00	2009-07-02
201172	SB-4 (20-21')	soil	2009-06-30	00:00	2009-07-02
201173	SB-4 (25-26')	soil	2009-06-30	00:00	2009-07-02

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.

Blair Leftwich

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 RJU Unit #119 were received by TraceAnalysis, Inc. on 2009-07-02 and assigned to work order 9070243. Samples for work order 9070243 were received intact at a temperature of 15.9 deg. 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	52230	2009-07-07 at 10:00	61243	2009-07-07 at 11:35
Chloride (Titration)	SM 4500-Cl B	52178	2009-07-06 at 08:45	61200	2009-07-07 at 11:45
Chloride (Titration)	SM 4500-Cl B	52179	2009-07-06 at 08:46	61201	2009-07-07 at 11:46
Chloride (Titration)	SM 4500-Cl B	52180	2009-07-06 at 08:47	61202	2009-07-07 at 11:47
Chloride (Titration)	SM 4500-Cl B	52181	2009-07-06 at 12:47	61203	2009-07-07 at 11:47
Chloride (Titration)	SM 4500-Cl B	52182	2009-07-06 at 12:48	61205	2009-07-07 at 11:48
Chloride (Titration)	SM 4500-Cl B	52183	2009-07-06 at 12:48	61259	2009-07-08 at 11:25
Chloride (Titration)	SM 4500-Cl B	52184	2009-07-06 at 13:49	61260	2009-07-08 at 11:26
Chloride (Titration)	SM 4500-Cl B	52185	2009-07-06 at 14:50	61261	2009-07-08 at 11:27
Chloride (Titration)	SM 4500-Cl B	52186	2009-07-06 at 14:51	61262	2009-07-08 at 11:28
Chloride (Titration)	SM 4500-Cl B	52187	2009-07-06 at 14:51	61263	2009-07-08 at 11:29
Chloride (Titration)	SM 4500-Cl B	52188	2009-07-06 at 14:52	61264	2009-07-08 at 11:30
TPH DRO	Mod. 8015B	52221	2009-07-07 at 10:00	61231	2009-07-07 at 13:40
TPH GRO	S 8015B	52230	2009-07-07 at 10:00	61244	2009-07-07 at 12:02

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 9070243 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 201081 - SB-1 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61200	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52178	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1190**	mg/Kg	50	4.00

Sample: 201082 - SB-1 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1630**	mg/Kg	50	4.00

Sample: 201083 - SB-1 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6240**	mg/Kg	50	4.00

Sample: 201084 - SB-1 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2760**	mg/Kg	50	4.00

Sample: 201085 - SB-1 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**4210**	mg/Kg	50	4.00

Sample: 201086 - SB-1 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1870**	mg/Kg	50	4.00

Sample: 201087 - SB-1 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1290**	mg/Kg	50	4.00

Sample: 201088 - SB-1 (30-31')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**706**	mg/Kg	50	4.00

Sample: 201089 - SB-1 (35-36')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**406**	mg/Kg	50	4.00

Sample: 201090 - SB-2 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3990**	mg/Kg	50	4.00

Sample: 201091 - SB-2 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3290**	mg/Kg	50	4.00

Sample: 201092 - SB-2 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**590**	mg/Kg	50	4.00

Sample: 201093 - SB-2 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**207**	mg/Kg	50	4.00

Sample: 201094 - SB-2 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

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

Sample: 201095 - SB-3 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1430**	mg/Kg	50	4.00

Sample: 201096 - SB-3 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2880**	mg/Kg	50	4.00

Sample: 201097 - SB-3 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2820**	mg/Kg	50	4.00

Sample: 201098 - SB-3 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2250**	mg/Kg	50	4.00

Sample: 201099 - SB-3 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1980**	mg/Kg	50	4.00

Sample: 201100 - SB-3 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**993**	mg/Kg	50	4.00

Sample: 201101 - SB-3 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	Sample Preparation:	2009-07-06	Prepared By:	AR

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

Sample: 201102 - SB-4 (0-1')

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	61243	Date Analyzed:	2009-07-07	Analyzed By:	ME
Prep Batch:	52230	Sample Preparation:	2009-07-07	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		**7.52**	mg/Kg	5	0.0100
Ethylbenzene		**19.5**	mg/Kg	5	0.0100
Xylene		**43.0**	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.97	mg/Kg	5	10.0	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		13.2	mg/Kg	5	10.0	132	45.2 - 144.3

Sample: 201102 - SB-4 (0-1')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61203	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52181	Sample Preparation:	2009-07-06	Prepared By:	AR

continued ...

sample 201102 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1070**	mg/Kg	50	4.00

Sample: 201102 - SB-4 (0-1')

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	61231	Date Analyzed:	2009-07-07	Analyzed By:	AG
Prep Batch:	52221	Sample Preparation:	2009-07-07	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1160**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		130	mg/Kg	1	100	130	13.2 - 219.3

Sample: 201102 - SB-4 (0-1')

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	61244	Date Analyzed:	2009-07-07	Analyzed By:	ME
Prep Batch:	52230	Sample Preparation:	2009-07-07	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**736**	mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.06	mg/Kg	5	10.0	91	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	[1]	36.3	mg/Kg	5	10.0	363	52 - 117

[1] High surrogate recovery due to peak interference.

Sample: 201103 - SB-4 (2-3')

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	61243	Date Analyzed:	2009-07-07	Analyzed By:	ME
Prep Batch:	52230	Sample Preparation:	2009-07-07	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.100	mg/Kg	10	0.0100
Toluene		**7.19**	mg/Kg	10	0.0100
Ethylbenzene		**20.1**	mg/Kg	10	0.0100
Xylene		**37.2**	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.8	mg/Kg	10	20.0	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		21.7	mg/Kg	10	20.0	108	45.2 - 144.3

Sample: 201103 - SB-4 (2-3')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61203	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52181	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1520**	mg/Kg	50	4.00

Sample: 201103 - SB-4 (2-3')

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	61231	Date Analyzed:	2009-07-07	Analyzed By:	AG
Prep Batch:	52221	Sample Preparation:	2009-07-07	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**691**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		102	mg/Kg	1	100	102	13.2 - 219.3

Sample: 201103 - SB-4 (2-3')

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	61244	Date Analyzed:	2009-07-07	Analyzed By:	ME
Prep Batch:	52230	Sample Preparation:	2009-07-07	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**817**	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		17.9	mg/Kg	10	20.0	90	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	[2]	44.3	mg/Kg	10	20.0	222	52 - 117

Sample: 201104 - SB-4 (5-6')

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	61243	Date Analyzed:	2009-07-07	Analyzed By:	ME
Prep Batch:	52230	Sample Preparation:	2009-07-07	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		**6.06**	mg/Kg	5	0.0100
Ethylbenzene		**23.2**	mg/Kg	5	0.0100
Xylene		**34.0**	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.95	mg/Kg	5	10.0	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		12.6	mg/Kg	5	10.0	126	45.2 - 144.3

Sample: 201104 - SB-4 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61203	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52181	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1390**	mg/Kg	50	4.00

[2]High surrogate recovery due to peak interference.

Sample: 201105 - SB-4 (8-9')

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	61243	Date Analyzed:	2009-07-07	Analyzed By:	ME
Prep Batch:	52230	Sample Preparation:	2009-07-07	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.47	mg/Kg	1	2.00	74	45.2 - 144.3

Sample: 201105 - SB-4 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61203	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52181	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1860**	mg/Kg	50	4.00

Sample: 201106 - SB-5 (3-4')

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	61243	Date Analyzed:	2009-07-07	Analyzed By:	ME
Prep Batch:	52230	Sample Preparation:	2009-07-07	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Sample: 201109 - SB-5 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61203	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52181	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3660**	mg/Kg	50	4.00

Sample: 201110 - SB-5 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61203	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52181	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5090**	mg/Kg	50	4.00

Sample: 201111 - SB-5 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61203	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52181	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5090**	mg/Kg	50	4.00

Sample: 201112 - SB-5 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2600**	mg/Kg	50	4.00

Sample: 201113 - SB-5 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**386**	mg/Kg	50	4.00

Sample: 201114 - SB-6 (0-1')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1380**	mg/Kg	50	4.00

Sample: 201115 - SB-6 (2-3')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10200**	mg/Kg	50	4.00

Sample: 201116 - SB-6 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5910**	mg/Kg	50	4.00

Sample: 201117 - SB-6 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6300**	mg/Kg	50	4.00

Sample: 201118 - SB-6 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2430**	mg/Kg	50	4.00

Sample: 201119 - SB-6 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1850**	mg/Kg	50	4.00

Sample: 201120 - SB-6 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**436**	mg/Kg	50	4.00

Sample: 201121 - SB-6 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61205	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52182	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**421**	mg/Kg	50	4.00

Sample: 201122 - SB-6 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**389**	mg/Kg	50	4.00

Sample: 201123 - SB-6 (30-31')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

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

Sample: 201124 - SB-7 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6230**	mg/Kg	50	4.00

Sample: 201125 - SB-7 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**4100**	mg/Kg	50	4.00

Sample: 201126 - SB-7 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3180**	mg/Kg	50	4.00

Sample: 201127 - SB-7 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1820**	mg/Kg	50	4.00

Sample: 201128 - SB-7 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1590**	mg/Kg	50	4.00

Sample: 201129 - SB-7 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1180**	mg/Kg	50	4.00

Sample: 201130 - SB-7 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**952**	mg/Kg	50	4.00

Sample: 201131 - SB-7 (30-31')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61259	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52183	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**309**	mg/Kg	50	4.00

Sample: 201132 - SB-8 (0-1')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10700**	mg/Kg	50	4.00

Sample: 201133 - SB-8 (2-3')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3980**	mg/Kg	50	4.00

Sample: 201134 - SB-8 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3120**	mg/Kg	50	4.00

Sample: 201135 - SB-8 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3390**	mg/Kg	50	4.00

Sample: 201136 - SB-8 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3130**	mg/Kg	50	4.00

Sample: 201137 - SB-8 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**4020**		mg/Kg	50	4.00

Sample: 201138 - SB-8 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**5120**		mg/Kg	50	4.00

Sample: 201139 - SB-8 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**4480**		mg/Kg	50	4.00

Sample: 201140 - SB-8 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**275**		mg/Kg	50	4.00

Sample: 201141 - SB-8 (30-31')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61260	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52184	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**310**	mg/Kg	50	4.00

Sample: 201142 - SB-9 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2080**	mg/Kg	50	4.00

Sample: 201143 - SB-9 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3030**	mg/Kg	50	4.00

Sample: 201144 - SB-9 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3150**	mg/Kg	50	4.00

Sample: 201145 - SB-9 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2370**	mg/Kg	50	4.00

Sample: 201146 - SB-9 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2260**	mg/Kg	50	4.00

Sample: 201147 - SB-9 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5250**	mg/Kg	50	4.00

Sample: 201148 - SB-9 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**838**	mg/Kg	50	4.00

Sample: 201149 - SB-9 (30-31')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**486**	mg/Kg	50	4.00

Sample: 201150 - SB-10 (0-1')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

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

Sample: 201151 - SB-10 (2-3')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61261	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52185	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**527**	mg/Kg	50	4.00

Sample: 201152 - SB-10 (5-6')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1150**	mg/Kg	50	4.00

Sample: 201153 - SB-10 (8-9')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**2360**	mg/Kg	50	4.00

Sample: 201154 - SB-10 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**9190**	mg/Kg	50	4.00

Sample: 201155 - SB-10 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**7050**	mg/Kg	50	4.00

Sample: 201156 - SB-10 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**4920**	mg/Kg	50	4.00

Sample: 201157 - SB-10 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3620**	mg/Kg	50	4.00

Sample: 201158 - SB-10 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2140**	mg/Kg	50	4.00

Sample: 201159 - SB-10 (30-31')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**709**	mg/Kg	50	4.00

Sample: 201160 - SB-10 (35-36')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61262	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52186	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**274**	mg/Kg	50	4.00

Sample: 201165 - SB-11 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61263	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52187	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3750**	mg/Kg	50	4.00

Sample: 201166 - SB-11 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61263	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52187	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1330**	mg/Kg	50	4.00

Sample: 201167 - SB-11 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61263	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52187	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**310**	mg/Kg	50	4.00

Sample: 201168 - SB-11 (30-31')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61263	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52187	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**284**	mg/Kg	50	4.00

Sample: 201169 - SB-4 (11-12')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61263	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52187	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1790**	mg/Kg	50	4.00

Sample: 201170 - SB-4 (13-14')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61263	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52187	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**966**	mg/Kg	50	4.00

Sample: 201171 - SB-4 (15-16')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61263	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52187	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**518**	mg/Kg	50	4.00

Sample: 201172 - SB-4 (20-21')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61264	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52188	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**510**	mg/Kg	50	4.00

Sample: 201173 - SB-4 (25-26')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	61264	Date Analyzed:	2009-07-08	Analyzed By:	AR
Prep Batch:	52188	Sample Preparation:	2009-07-06	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**336**	mg/Kg	50	4.00

Method Blank (1) QC Batch: 61200

QC Batch:	61200	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52178	QC Preparation:	2009-07-06	Prepared By:	AR

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

Method Blank (1) QC Batch: 61201

QC Batch:	61201	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52179	QC Preparation:	2009-07-06	Prepared By:	AR

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

Method Blank (1) QC Batch: 61202

QC Batch:	61202	Date Analyzed:	2009-07-07	Analyzed By:	AR
Prep Batch:	52180	QC Preparation:	2009-07-06	Prepared By:	AR

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

Method Blank (1) QC Batch: 61203

QC Batch: 61203 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52181 QC Preparation: 2009-07-06 Prepared By: AR

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

Method Blank (1) QC Batch: 61205

QC Batch: 61205 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52182 QC Preparation: 2009-07-06 Prepared By: AR

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

Method Blank (1) QC Batch: 61231

QC Batch: 61231 Date Analyzed: 2009-07-07 Analyzed By: AG
Prep Batch: 52221 QC Preparation: 2009-07-07 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		110	mg/Kg	1	100	110	13 - 178.5

Method Blank (1) QC Batch: 61243

QC Batch: 61243 Date Analyzed: 2009-07-07 Analyzed By: ME
Prep Batch: 52230 QC Preparation: 2009-07-07 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01

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Parameter	Flag	MDL Result	Units	RL
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.95	mg/Kg	1	2.00	98	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.62	mg/Kg	1	2.00	81	51.9 - 128.1

Method Blank (1) QC Batch: 61244

QC Batch: 61244 Date Analyzed: 2009-07-07 Analyzed By: ME
Prep Batch: 52230 QC Preparation: 2009-07-07 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.82	mg/Kg	1	2.00	91	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.51	mg/Kg	1	2.00	76	45.7 - 118.9

Method Blank (1) QC Batch: 61259

QC Batch: 61259 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52183 QC Preparation: 2009-07-06 Prepared By: AR

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

Method Blank (1) QC Batch: 61260

QC Batch: 61260 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52184 QC Preparation: 2009-07-06 Prepared By: AR

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

Method Blank (1) QC Batch: 61261

QC Batch: 61261 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52185 QC Preparation: 2009-07-06 Prepared By: AR

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

Method Blank (1) QC Batch: 61262

QC Batch: 61262 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52186 QC Preparation: 2009-07-06 Prepared By: AR

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

Method Blank (1) QC Batch: 61263

QC Batch: 61263 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52187 QC Preparation: 2009-07-06 Prepared By: AR

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

Method Blank (1) QC Batch: 61264

QC Batch: 61264 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52188 QC Preparation: 2009-07-06 Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 61200 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52178 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.1	mg/Kg	1	100	<2.18	99	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	99.9	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 61201 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52179 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.2	mg/Kg	1	100	<2.18	99	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	101	mg/Kg	1	100	<2.18	101	85 - 115	2	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: 61202 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52180 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.1	mg/Kg	1	100	<2.18	99	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	100	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 61203 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52181 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.8	mg/Kg	1	100	<2.18	99	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	100	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 61205 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52182 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.0	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.4	mg/Kg	1	100	<2.18	99	85 - 115	1	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: 61231 Date Analyzed: 2009-07-07 Analyzed By: AG
Prep Batch: 52221 QC Preparation: 2009-07-07 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	243	mg/Kg	1	250	<5.86	97	57.4 - 133.4

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	258	mg/Kg	1	250	<5.86	103	57.4 - 133.4	6	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-Triacontane	88.1	87.4	mg/Kg	1	100	88	87	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 61243 | Date Analyzed: 2009-07-07 | Analyzed By: ME
Prep Batch: 52230 | QC Preparation: 2009-07-07 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.20	mg/Kg	1	2.00	<0.00100	110	72.7 - 129.8
Toluene	2.19	mg/Kg	1	2.00	<0.00100	110	71.6 - 129.6
Ethylbenzene	2.15	mg/Kg	1	2.00	<0.00110	108	70.8 - 129.7
Xylene	6.28	mg/Kg	1	6.00	<0.00360	105	70.9 - 129.4

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	2.21	mg/Kg	1	2.00	<0.00100	110	72.7 - 129.8	0	20
Toluene	2.22	mg/Kg	1	2.00	<0.00100	111	71.6 - 129.6	1	20
Ethylbenzene	2.21	mg/Kg	1	2.00	<0.00110	110	70.8 - 129.7	3	20
Xylene	6.53	mg/Kg	1	6.00	<0.00360	109	70.9 - 129.4	4	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)	1.96	1.96	mg/Kg	1	2.00	98	98	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.67	1.73	mg/Kg	1	2.00	84	86	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 61244 | Date Analyzed: 2009-07-07 | Analyzed By: ME
Prep Batch: 52230 | QC Preparation: 2009-07-07 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	13.3	mg/Kg	1	20.0	<0.482	66	60.5 - 100.1

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
GRO	12.5	mg/Kg	1	20.0	<0.482	62	60.5 - 100.1	6	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)	1.84	1.85	mg/Kg	1	2.00	92	92	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.62	1.68	mg/Kg	1	2.00	81	84	66.1 - 108.3

Laboratory Control Spike (LCS-1)

QC Batch: 61259 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52183 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<2.18	99	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	99.1	mg/Kg	1	100	<2.18	99	85 - 115	0	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: 61260 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52184 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<2.18	101	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	99.4	mg/Kg	1	100	<2.18	99	85 - 115	2	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: 61261 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52185 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.4	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.3	mg/Kg	1	100	<2.18	99	85 - 115	1	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: 61262 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52186 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.3	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<2.18	100	85 - 115	2	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: 61263 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52187 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.7	mg/Kg	1	100	<2.18	99	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	99.4	mg/Kg	1	100	<2.18	99	85 - 115	1	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: 61264 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52188 QC Preparation: 2009-07-06 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<2.18	100	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	101	mg/Kg	1	100	<2.18	101	85 - 115	1	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: 201081

QC Batch: 61200 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52178 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	6360	mg/Kg	50	5000	1190	103	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.	Rec. Limit	RPD	RPD Limit
Chloride	6390	mg/Kg	50	5000	1190	104	85 - 115	0	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: 201091

QC Batch: 61201 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52179 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8310	mg/Kg	50	5000	3290	100	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.	Rec. Limit	RPD	RPD Limit
Chloride	8350	mg/Kg	50	5000	3290	101	85 - 115	0	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: 201101

QC Batch: 61202 Date Analyzed: 2009-07-07 Analyzed By: AR
Prep Batch: 52180 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5060	mg/Kg	50	5000	197	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.	Rec. Limit	RPD	RPD Limit
Chloride	5170	mg/Kg	50	5000	197	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: 201111

QC Batch: 61203 | Date Analyzed: 2009-07-07 | Analyzed By: AR
Prep Batch: 52181 | QC Preparation: 2009-07-06 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	mg/Kg	50	5000	5090	100	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.	Rec. Limit	RPD	RPD Limit
Chloride	10200	mg/Kg	50	5000	5090	102	85 - 115	1	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: 201121

QC Batch: 61205 | Date Analyzed: 2009-07-07 | Analyzed By: AR
Prep Batch: 52182 | QC Preparation: 2009-07-06 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5380	mg/Kg	50	5000	421	99	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.	Rec. Limit	RPD	RPD Limit
Chloride	5460	mg/Kg	50	5000	421	101	85 - 115	2	20

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

Matrix Spike (MS-1) Spiked Sample: 201194

QC Batch: 61231 | Date Analyzed: 2009-07-07 | Analyzed By: AG
Prep Batch: 52221 | QC Preparation: 2009-07-07 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	212	mg/Kg	1	250	<5.86	85	35.2 - 167.1

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. Limit	RPD	RPD Limit
DRO	210	mg/Kg	1	250	<5.86	84	35.2 - 167.1	1	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
n-Triacontane	72.8	73.1	mg/Kg	1	100	73	73	34.5 - 178.4

Matrix Spike (MS-1) Spiked Sample: 201106

QC Batch: 61243 Date Analyzed: 2009-07-07 Analyzed By: ME
Prep Batch: 52230 QC Preparation: 2009-07-07 Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.19	mg/Kg	1	2.00	<0.00100	110	58.6 - 165.2
Toluene	2.17	mg/Kg	1	2.00	<0.00100	108	64.2 - 153.8
Ethylbenzene	2.18	mg/Kg	1	2.00	<0.00110	109	61.6 - 159.4
Xylene	6.27	mg/Kg	1	6.00	<0.00360	104	64.4 - 155.3

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. Limit	RPD	RPD Limit
Benzene	2.20	mg/Kg	1	2.00	<0.00100	110	58.6 - 165.2	0	20
Toluene	2.17	mg/Kg	1	2.00	<0.00100	108	64.2 - 153.8	0	20
Ethylbenzene	2.21	mg/Kg	1	2.00	<0.00110	110	61.6 - 159.4	1	20
Xylene	6.43	mg/Kg	1	6.00	<0.00360	107	64.4 - 155.3	2	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)	2.02	2.02	mg/Kg	1	2	101	101	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.53	1.52	mg/Kg	1	2	76	76	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 201194

QC Batch: 61244 Date Analyzed: 2009-07-07 Analyzed By: ME
Prep Batch: 52230 QC Preparation: 2009-07-07 Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	18.0	mg/Kg	1	20.0	<0.482	90	12.8 - 175.2

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. Limit	RPD	RPD Limit
GRO	18.2	mg/Kg	1	20.0	<0.482	91	12.8 - 175.2	1	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)	1.94	1.94	mg/Kg	1	2	97	97	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.53	1.52	mg/Kg	1	2	76	76	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 201131

QC Batch: 61259 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52183 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5260	mg/Kg	50	5000	309	99	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.	Rec. Limit	RPD	RPD Limit
Chloride	5310	mg/Kg	50	5000	309	100	85 - 115	1	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: 201141

QC Batch: 61260 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52184 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5160	mg/Kg	50	5000	310	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.	Rec. Limit	RPD	RPD Limit
Chloride	5220	mg/Kg	50	5000	310	98	85 - 115	1	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: 201151

QC Batch: 61261 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52185 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5370	mg/Kg	50	5000	527	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.	Rec. Limit	RPD	RPD Limit
Chloride	5450	mg/Kg	50	5000	527	98	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: 201161

QC Batch: 61262 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52186 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8730	mg/Kg	50	5000	3820	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.	Rec. Limit	RPD	RPD Limit
Chloride	8790	mg/Kg	50	5000	3820	99	85 - 115	1	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: 201171

QC Batch: 61263 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52187 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5360	mg/Kg	50	5000	518	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.	Rec. Limit	RPD	RPD Limit
Chloride	5460	mg/Kg	50	5000	518	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: 201194

QC Batch: 61264 Date Analyzed: 2009-07-08 Analyzed By: AR
Prep Batch: 52188 QC Preparation: 2009-07-06 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5040	mg/Kg	50	5000	229	96	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.	Rec. Limit	RPD	RPD Limit
Chloride	5140	mg/Kg	50	5000	229	98	85 - 115	2	20

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

Standard (ICV-1)

QC Batch: 61200 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2009-07-07

Standard (CCV-1)

QC Batch: 61200 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.4	98	85 - 115	2009-07-07

Standard (ICV-1)

QC Batch: 61201 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.4	97	85 - 115	2009-07-07

Standard (CCV-1)

QC Batch: 61201 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2009-07-07

Standard (ICV-1)

QC Batch: 61202 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2009-07-07

Standard (CCV-1)

QC Batch: 61202 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	96.8	97	85 - 115	2009-07-07

Standard (ICV-1)

QC Batch: 61203 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.0	98	85 - 115	2009-07-07

Standard (CCV-1)

QC Batch: 61203 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2009-07-07

Standard (ICV-1)

QC Batch: 61205 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-07-07

Standard (CCV-1)

QC Batch: 61205 Date Analyzed: 2009-07-07 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2009-07-07

Standard (CCV-1)

QC Batch: 61231 Date Analyzed: 2009-07-07 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	251	100	80 - 120	2009-07-07

Standard (CCV-2)

QC Batch: 61231 Date Analyzed: 2009-07-07 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	222	89	80 - 120	2009-07-07

Standard (CCV-1)

QC Batch: 61243 Date Analyzed: 2009-07-07 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.114	114	80 - 120	2009-07-07
Toluene		mg/Kg	0.100	0.114	114	80 - 120	2009-07-07
Ethylbenzene		mg/Kg	0.100	0.115	115	80 - 120	2009-07-07
Xylene		mg/Kg	0.300	0.343	114	80 - 120	2009-07-07

Standard (CCV-2)

QC Batch: 61243 Date Analyzed: 2009-07-07 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.110	110	80 - 120	2009-07-07
Toluene		mg/Kg	0.100	0.110	110	80 - 120	2009-07-07
Ethylbenzene		mg/Kg	0.100	0.107	107	80 - 120	2009-07-07
Xylene		mg/Kg	0.300	0.316	105	80 - 120	2009-07-07

Standard (CCV-1)

QC Batch: 61244 Date Analyzed: 2009-07-07 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.854	85	80 - 120	2009-07-07

Standard (CCV-2)

QC Batch: 61244 Date Analyzed: 2009-07-07 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.978	98	80 - 120	2009-07-07

Standard (ICV-1)

QC Batch: 61259 Date Analyzed: 2009-07-08 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-07-08

Standard (CCV-1)

QC Batch: 61259 Date Analyzed: 2009-07-08 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	2009-07-08

Standard (CCV-1)

QC Batch: 61262 Date Analyzed: 2009-07-08 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	2009-07-08

Standard (ICV-1)

QC Batch: 61263 Date Analyzed: 2009-07-08 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-07-08

Standard (CCV-1)

QC Batch: 61263 Date Analyzed: 2009-07-08 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2009-07-08

Standard (ICV-1)

QC Batch: 61264 Date Analyzed: 2009-07-08 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2009-07-08

Standard (CCV-1)

QC Batch: 61264 Date Analyzed: 2009-07-08 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.0	98	85 - 115	2009-07-08

Order # 90102?

Analysis Request of Chain of Custody Record

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TETRA TECH
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Midland, Texas 79705
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CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400210

PROJECT NAME: RJU Unit #119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	Chloride
20081	06/30/09		S		✓	SB-1 (5-6')	1				✓	✓	✓
082	06/30/09		S		✓	SB-1 (8-9')	1				✓	✓	✓
083	06/30/09		S		✓	SB-1 (11-12')	1				✓	✓	✓
084	06/30/09		S		✓	SB-1 (13-14')	1				✓	✓	✓
085	06/30/09		S		✓	SB-1 (15-16')	1				✓	✓	✓
086	06/30/09		S		✓	SB-1 (20-21')	1				✓	✓	✓
087	06/30/09		S		✓	SB-1 (25-26')	1				✓	✓	✓
088	06/30/09		S		✓	SB-1 (30-31')	1				✓	✓	✓
089	06/30/09		S		✓	SB-1 (35-36')	1				✓	✓	✓
090	06/30/09		S		✓	SB-2 (5-6')	1				✓	✓	✓

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B | 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 Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC.MS Vol. 8240/8260/624 | GC.MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature) Date: 7/2/09 Time: 1410
RECEIVED BY: (Signature) Date: Time:
SAMPLED BY: (Print & Initial) Jeffrey Kindley JWK Date: 06/30/09 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez Results by:

RECEIVING LABORATORY: Trace Analysis Inc.
ADDRESS:
CITY: Midland STATE: Tx ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Melanie Battin
DATE: 7/2/09 TIME: 1410
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9 °C
REMARKS:

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

Order #401023

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-640210

PROJECT NAME: RJU Unit #119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	ANALYSIS REQUEST (Circle or Specify Method No.): BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
201091	06/30/09		S		✓	SB-2 (8-9')	1				✓	✓													✓				
092	06/30/09		S		✓	SB-2 (11-12')	1				✓	✓													✓				
093	06/30/09		S		✓	SB-2 (13-14')	1				✓	✓													✓				
094	06/30/09		S		✓	SB-2 (15-16')	1				✓	✓													✓				
095	06/30/09		S		✓	SB-3 (5-6')	1				✓	✓													✓				
096	06/30/09		S		✓	SB-3 (8-9')	1				✓	✓													✓				
097	06/30/09		S		✓	SB-3 (11-12')	1				✓	✓													✓				
098	06/30/09		S		✓	SB-3 (13-14')	1				✓	✓													✓				
099	06/30/09		S		✓	SB-3 (15-16')	1				✓	✓													✓				
100	06/30/09		S		✓	SB-3 (20-21')	1				✓	✓													✓				

RELINQUISHED BY: (Signature) Date: 7/2/09 Time: 1410
RECEIVED BY: (Signature) Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) Jeffrey Kindley JWK Date: 07/02/09 Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RECEIVING LABORATORY: Trace Analysis, Inc.
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Date: 7/2/09 Time: 1410

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9°C

REMARKS:

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

Order # 90U243

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-640 0210

PROJECT NAME: RJU Unit # 119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
201101	06/30/09		S		✓	SB-3 (25-26')	1				✓	✓													✓				
102	06/30/09		S		✓	SB-4 (0-1')	1				✓	✓	✓	✓											✓				
103	06/30/09		S		✓	SB-4 (2-3')	1				✓	✓	✓	✓											✓				
104	06/30/09		S		✓	SB-4 (5-6')	1				✓	✓	✓	✗											✓				
105	06/30/09		S		✓	SB-4 (8-9')	1				✓	✓	✓	✗											✓				
106	06/30/09		S		✓	SB-5 (3-4')	1				✓	✓	✓												✓				
107	06/30/09		S		✓	SB-5 (5-6')	1				✓	✓													✓				
108	06/30/09		S		✓	SB-5 (8-9')	1				✓	✓													✓				
109	06/30/09		S		✓	SB-5 (11-12')	1				✓	✓													✓				
110	06/30/09		S		✓	SB-5 (13-14')	1				✓	✓													✓				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature)	Date: 7/1/09 Time: 1413	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) Jeffrey Kindley JWK Date: 6/30/09 Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS (HAND DELIVERED) UPS AIRBILL #: OTHER:

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Midland STATE: Tx ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) [signature] (Patton)
DATE: 7/2/09 TIME: 1410

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9 °C

REMARKS: * IF total TPH is ≥ 5000 mg/kg, run next sample down (Initially analyze 0-1', 2-3')

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

Work Order #: 410293

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-640 0210

PROJECT NAME: RJU Unit # 119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	(Chloride)	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
201111	06/30/09		S		✓	SB-5 (15-16')	1				✓	✓													✓				
112	06/30/09		S		✓	SB-5 (20-21')	1				✓	✓													✓				
113	06/30/09		S		✓	SB-5 (25-26')	1				✓	✓													✓				
114	06/30/09		S		✓	SB-6 (0-1')	1				✓	✓													✓				
115	06/30/09		S		✓	SB-6 (2-3')	1				✓	✓													✓				
116	06/30/09		S		✓	SB-6 (5-6')	1				✓	✓													✓				
117	06/30/09		S		✓	SB-6 (8-9')	1				✓	✓													✓				
118	06/30/09		S		✓	SB-6 (11-12')	1				✓	✓													✓				
119	06/30/09		S		✓	SB-6 (13-14')	1				✓	✓													✓				
120	06/30/09		S		✓	SB-6 (15-16')	1				✓	✓													✓				

RELINQUISHED BY: (Signature) Date: 7/2/09 Time: 1410

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) Tiffany Kindley TWK Date: 07/02/09 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace Analysis

ADDRESS:

CITY: Midland STATE: Tx ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Melanie L. Bolton

DATE: 7/2/09 TIME: 1410

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9 °C

REMARKS:

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

Order #910243

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400210

PROJECT NAME: RJU Unit #119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
201121	06/30/09		S		✓	SB-6 (20-21')	1				✓	✓													✓				
122	06/30/09		S		✓	SB-6 (25-26')	1				✓	✓													✓				
123	06/30/09		S		✓	SB-6 (30-31')	1				✓	✓													✓				
124	07/01/09		S		✓	SB-7 (5-6')	1				✓	✓													✓				
125	07/01/09		S		✓	SB-7 (8-9')	1				✓	✓													✓				
126	07/01/09		S		✓	SB-7 (11-12')	1				✓	✓													✓				
127	07/01/09		S		✓	SB-7 (13-14')	1				✓	✓													✓				
128	07/01/09		S		✓	SB-7 (15-16')	1				✓	✓													✓				
129	07/01/09		S		✓	SB-7 (20-21')	1				✓	✓													✓				
130	07/01/09		S		✓	SB-7 (25-26')	1				✓	✓													✓				

RELINQUISHED BY: (Signature) — Date: 7/2/09 Time: 1410

RECEIVED BY: (Signature) — Date: Time:

SAMPLED BY: (Print & Initial) Tommy Kirby JWK — Date: 07/02/09 Time:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

TETRA TECH CONTACT PERSON: Ike Tavarez — Results by:

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Midland STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: 7/2/09 TIME: 1410

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9°C

REMARKS:

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

Draft #910 10243

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-640 0210

PROJECT NAME: RJU Unit # 119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
20131	07/01/09		S		✓	SB-7 (30-31')	1				✓	✓													✓				
132	07/01/09		S		✓	SB-8 (0-1')	1				✓	✓													✓				
133	07/01/09		S		✓	SB-8 (2-3')	1				✓	✓													✓				
134	07/01/09		S		✓	SB-8 (5-6')	1				✓	✓													✓				
135	07/01/09		S		✓	SB-8 (8-9')	1				✓	✓													✓				
136	07/01/09		S		✓	SB-8 (11-12')	1				✓	✓													✓				
137	07/01/09		S		✓	SB-8 (13-14')	1				✓	✓													✓				
138	07/01/09		S		✓	SB-8 (15-16')	1				✓	✓													✓				
139	07/01/09		S		✓	SB-8 (20-21')	1				✓	✓													✓				
140	07/01/09		S		✓	SB-8 (25-26')	1				✓	✓													✓				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Date: 7/2/09 Time: 1410

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) Jeffrey Kindler JWK Date: 07/02/09 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Trace Analysis

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Melanie Battle

DATE: 7/2/09 TIME: 1410

SAMPLE CONDITION WHEN RECEIVED: 15.9 °C

REMARKS:

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

Order # 401029

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: IKe Tavarez

PROJECT NO.: 114-640 0210

PROJECT NAME: RJU Unit #119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
201141	07/01/09		S		✓	SB-8 (30-31')	1				✓	✓												✓				
142	07/01/09		S		✓	SB-9 (5-6')	1				✓	✓												✓				
143	07/01/09		S		✓	SB-9 (8-9')	1				✓	✓												✓				
144	07/01/09		S		✓	SB-9 (11-12')	1				✓	✓												✓				
145	07/01/09		S		✓	SB-9 (13-14')	1				✓	✓												✓				
146	07/01/09		S		✓	SB-9 (15-16')	1				✓	✓												✓				
147	07/01/09		S		✓	SB-9 (20-21)	1				✓	✓												✓				
148	07/01/09		S		✓	SB-9 (25-26')	1				✓	✓												✓				
149	07/01/09		S		✓	SB-9 (30-31')	1				✓	✓												✓				
150	07/01/09		S		✓	SB-10 (0-1')	1				✓	✓												✓				

RELINQUISHED BY: (Signature) Date: 7/2/09 Time: 1410
RECEIVED BY: (Signature) Date: Time:
SAMPLED BY: (Print & Initial) Date: 07/02/09 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
TETRA TECH CONTACT PERSON: IKe Tavarez Results by:

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Midland STATE: Tx ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: 7/2/09 TIME: 1410
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9 °C

REMARKS:

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

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:	SITE MANAGER:
COG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
114-640 0210	RJU Unit #119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
201151	07/01/09		S		✓	SB-10 (2-3')	1				✓	✓
152	07/01/09		S		✓	SB-10 (5-6')	1				✓	✓
153	07/01/09		S		✓	SB-10 (8-9')	1				✓	✓
154	07/01/09		S		✓	SB-10 (11-12')	1				✓	✓
155	07/01/09		S		✓	SB-10 (13-14')	1				✓	✓
156	07/01/09		S		✓	SB-10 (15-16')	1				✓	✓
157	07/01/09		S		✓	SB-10 (20-21')	1				✓	✓
158	07/01/09		S		✓	SB-10 (25-26')	1				✓	✓
159	07/01/09		S		✓	SB-10 (30-31')	1				✓	✓
160	07/01/09		S		✓	SB-10 (35-36')	1				✓	✓

BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
												✓				

RELINQUISHED BY: (Signature)	Date: 7/2/09 Time: 1400	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) Jeffrey Kindle JWK — Date: 07/02/09 Time:

SAMPLE/SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: — OTHER:

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Midland STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Phillip Battles
DATE: 7/2/09 TIME: 1410

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9°C

REMARKS:

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

Trail #401245

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: 9 OF: 9

CLIENT NAME: COG

SITE MANAGER: IKe Tavarez

PROJECT NO.: 114-640 0210

PROJECT NAME: RJU Unit # 119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
201161	07/01/09		S		✓	SB-11 (5-6')	1				✓	✓												✓				
162	07/01/09		S		✓	SB-11 (8-9')	1				✓	✓												✓				
163	07/01/09		S		✓	SB-11 (11-12')	1				✓	✓												✓				
164	07/01/09		S		✓	SB-11 (13-14')	1				✓	✓												✓				
165	07/01/09		S		✓	SB-11 (15-16')	1				✓	✓												✓				
166	07/01/09		S		✓	SB-11 (20-21')	1				✓	✓												✓				
167	07/01/09		S		✓	SB-11 (25-26')	1				✓	✓												✓				
168	07/01/09		S		✓	SB-11 (30-31')	1				✓	✓												✓				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Date: 7/2/09 Time: 1410

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) Jeffrey Kindle JWK Date: 07/02/09 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: IKe Tavarez

Results by:

RECEIVING LABORATORY: Trace Analysis

ADDRESS:

CITY: Midland STATE: Tx ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Melanie Batton

DATE: 7/2/09 TIME: 1410

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9°C

REMARKS:

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

Analysis Request of Chain of Custody Record

Urgent # 401043

PAGE: 10 OF: 10

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400210

PROJECT NAME: RJU Unit #119

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
201 169	06/30/09		S		✓	SB-4 (11-12')	1				✓	✓
170	06/30/09		S		✓	SB-4 (13-14')	1				✓	✓
171	06/30/09		S		✓	SB-4 (15-16')	1				✓	✓
172	06/30/09		S		✓	SB-4 (20-21')	1				✓	✓
173	06/30/09		S		✓	SB-4 (25-26')	1				✓	✓
	~~06/30/09~~		~~S~~		~~✓~~	~~SB-5 (30-31')~~ JWK (No Sample)	~~1~~				~~✓~~	~~✓~~
	~~06/30/09~~		~~S~~		~~✓~~	~~SB-5 (35-36')~~ JWK (No Sample)	~~1~~				~~✓~~	~~✓~~

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	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 Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride ✓	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature) — Date: 7/2/09 Time: 1400 — RECEIVED BY: (Signature) — Date: — Time:

SAMPLED BY: (Print & Initial) Jeffrey Kindle JWK — Date: 6/30/09 Time:

RELINQUISHED BY: (Signature) — Date: — Time: — RECEIVED BY: (Signature) — Date: — Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: — OTHER:

RELINQUISHED BY: (Signature) — Date: — Time: — RECEIVED BY: (Signature) — Date: — Time:

TETRA TECH CONTACT PERSON: Ike Tavarez — Results by:

RECEIVING LABORATORY: Texas Analysis — RECEIVED BY: (Signature) Melanie Batton

ADDRESS: — CITY: Midland — STATE: TX — ZIP: — CONTACT: — PHONE: — DATE: 7/2/09 — TIME: 1410

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 15.9°C

REMARKS:

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