



TETRA TECH

April 19, 2010

Mike Bratcher
NMOCD District II
1301 W. Grand Ave.
Artesia, New Mexico 88210

Re: Assessment and Closure Report for the OXY USA, Inc., Pure Gold B Federal #8 Well, Unit Letter H, Section 20, Township 23 South, Range 31 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. was contacted by Pogo Producing Company (Now operated by OXY USA, Inc.), to assess a spill at the Pure Gold B Federal #8 well site located in Unit Letter H, Section 20, Township 23 South, Range 31 East, Eddy County, New Mexico (Site). The site is shown on Figures 1 and 2.

Background

According to the New Mexico Oil Conservation Division (OCD) Form C-141 (Initial) the spill occurred on September 27, 2007, from a flow line leak. Approximately 135 barrels of oil and produced water was released, with 123 barrels of fluid recovered with a vacuum truck. A copy of the State of New Mexico C-141 (Initial) is included in Appendix A.

Groundwater

According to *Ground Water Report 3, "Geology and Ground-Water Resources of Eddy County, New Mexico"*, there are is one water well in Section 7, Township 23 South, Range 31 East, with a reported depth to groundwater of 140'. The next closest water well was listed in the New Mexico Office of the State Engineer, WATERS database, and is located in Section 4, T-23-S, R-31-E, with a reported depth to water of 168' bgs. Copies of the water level data are enclosed in Appendix B.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com



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.

Assessment and Results

Tetra Tech personnel inspected the site on September 25, 2007 to collect soil samples from the spill area. The spill area and overspray areas are shown on Figure 3. A total of fifteen (15) auger holes (AH-1 through AH-15) were installed using a stainless steel hand auger to assess the impacted soils. Samples were analyzed for TPH analysis by EPA method 8015 modified and chloride by EPA method 300.0. Selected samples were analyzed for BTEX by EPA Method 8021B. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix C. The auger hole locations are shown on Figure 3. The results of the sampling are summarized in Table 1.

Referring to Table 1, TPH concentrations exceeded the RRAL in AH-1 (0-1') and, AH-6 (0-1'). No BTEX concentrations exceeded the RRAL in any of the samples analyzed. Chloride concentrations were elevated in AH-1 to a depth of 6.5', AH-5 and AH-8 to a depth of 1.0', AH-6 to a depth of 2.5' and AH-9 to a depth of 1.5'. All chloride concentrations declined with depth and all auger hole locations were defined.

Based upon the initial sampling results, on December 18-19, 2009, the spill area was excavated to depths ranging from 0.5' to 8.0' to remove impacted soils. The excavated soils were hauled to Lea Land for proper disposal. The excavation was backfilled with clean soil. The excavation depths are shown on Table 1.

Based upon the results of the assessment and remedial work performed at this site, OXY requests closure of this site. A copy of the C-141 (Final) is included in Appendix A. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.



TETRA TECH

TETRA TECH, INC.

Tim Reed, P.G.
Sr. Project Manager

cc: Rick Passmore - Glenn Springs Holdings
Mark Andersen - OXY USA, Inc.

TABLE

Table 1
Pogo Producing Company
Pure Gold Federal #8
Eddy County, New Mexico

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		In-situ	Removed		DRO	GRO					
AH-1	9/25/2007		X	0-1	4,740	421	<0.100	2.17	2.78	11.6	8,580
	9/25/2007		X	1-1.5	<50.0	2.02	-	-	-	-	9,840
	9/25/2007		X	2-2.5	<50.0	<1.00	-	-	-	-	9,330
	9/25/2007		X	3-3.5	-	-	-	-	-	-	20,600
	9/25/2007		X	4-4.5	-	-	-	-	-	-	18,600
	9/25/2007		X	5-5.5	-	-	-	-	-	-	8,840
	9/25/2007		X	6-6.5	-	-	-	-	-	-	3,870
	9/25/2007	X		8-8.5	-	-	-	-	-	-	<100
	9/25/2007	X		10-10.5	-	-	-	-	-	-	<100
AH-2	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	<100
	9/25/2007	X		1-1.5	-	-	-	-	-	-	<100
AH-3	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	<100
	9/25/2007	X		1-1.5	-	-	-	-	-	-	<100
AH-4	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	<100
	9/25/2007	X		1-1.5	-	-	-	-	-	-	<100
AH-5	9/25/2007		X	0-1	353	14.2	-	-	-	-	2,500
	9/25/2007	X		1-1.5	<50.0	<1.00	-	-	-	-	<100
	9/25/2007	X		2-2.5	<50.0	<1.00	<0.0100	<0.0100	<0.0100	<0.0100	<100
AH-6	9/25/2007		X	0-1	5,480	1,260	<0.0500	3.52	4.21	17.5	10,600
	9/25/2007		X	1-1.5	71.8	4.03	-	-	-	-	9,990
	9/25/2007		X	2-2.5	<50.0	1.01	-	-	-	-	878
	9/25/2007		X	3-3.5	-	-	-	-	-	-	<100
	9/25/2007	X		4-4.5	-	-	-	-	-	-	425

(-) Not Analyzed

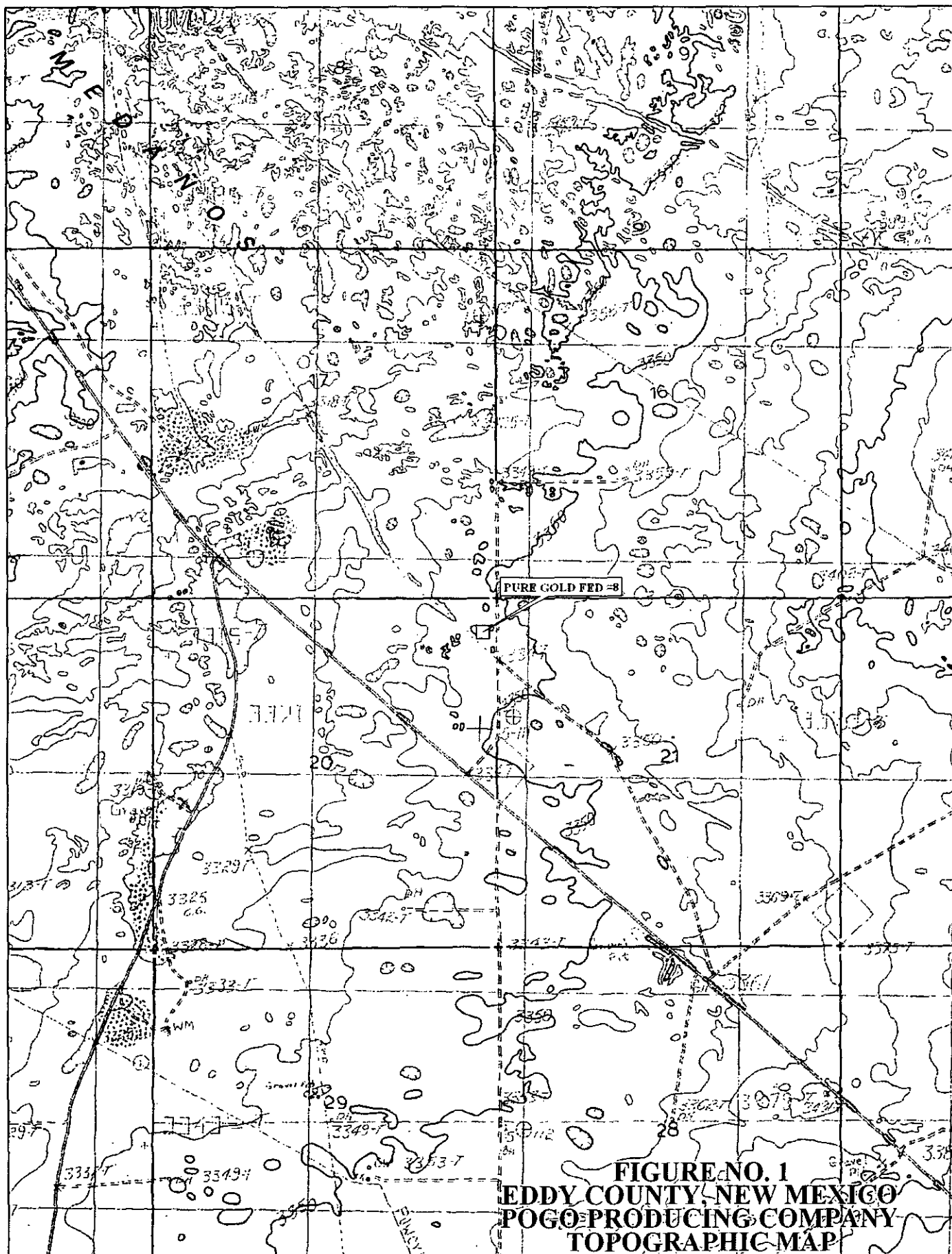
Table 1

Pogo Producing Company
Pure Gold Federal #8
Eddy County, New Mexico

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		In-situ	Removed		DRO	GRO					
AH-7	9/25/2007	X		0-1	1,200	72.3	<0.0500	0.0982	0.485	2.38	770
	9/25/2007	X		1-1.5	-	-	-	-	-	-	196
AH-8	9/25/2007		X	0-1	221	17.0	-	-	-	-	6,320
	9/25/2007	X		1-1.5	-	-	-	-	-	-	<100
AH-9	9/25/2007		X	0-1	198	18.2	-	-	-	-	2,530
	9/25/2007		X	1-1.5	-	-	-	-	-	-	3,990
	9/25/2007	X		2-2.5	-	-	-	-	-	-	202
	9/25/2007	X		3-3.5	-	-	-	-	-	-	244
AH-10	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	244
	9/25/2007	X		1-1.5	-	-	-	-	-	-	180
	9/25/2007	X		2-2.5	-	-	-	-	-	-	132
AH-11	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	126
	9/25/2007	X		1-1.5	-	-	-	-	-	-	247
	9/25/2007	X		2-2.5	-	-	-	-	-	-	<100
AH-12	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	159
	9/25/2007	X		1-1.5	-	-	-	-	-	-	175
AH-13	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	192
	9/25/2007	X		1-1.5	-	-	-	-	-	-	<100
AH-14	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	121
AH-15	9/25/2007	X		0-1	<50.0	<1.00	-	-	-	-	378

(-) Not Analyzed

FIGURES



NORTH



LEASE RD.

FLOWLINE

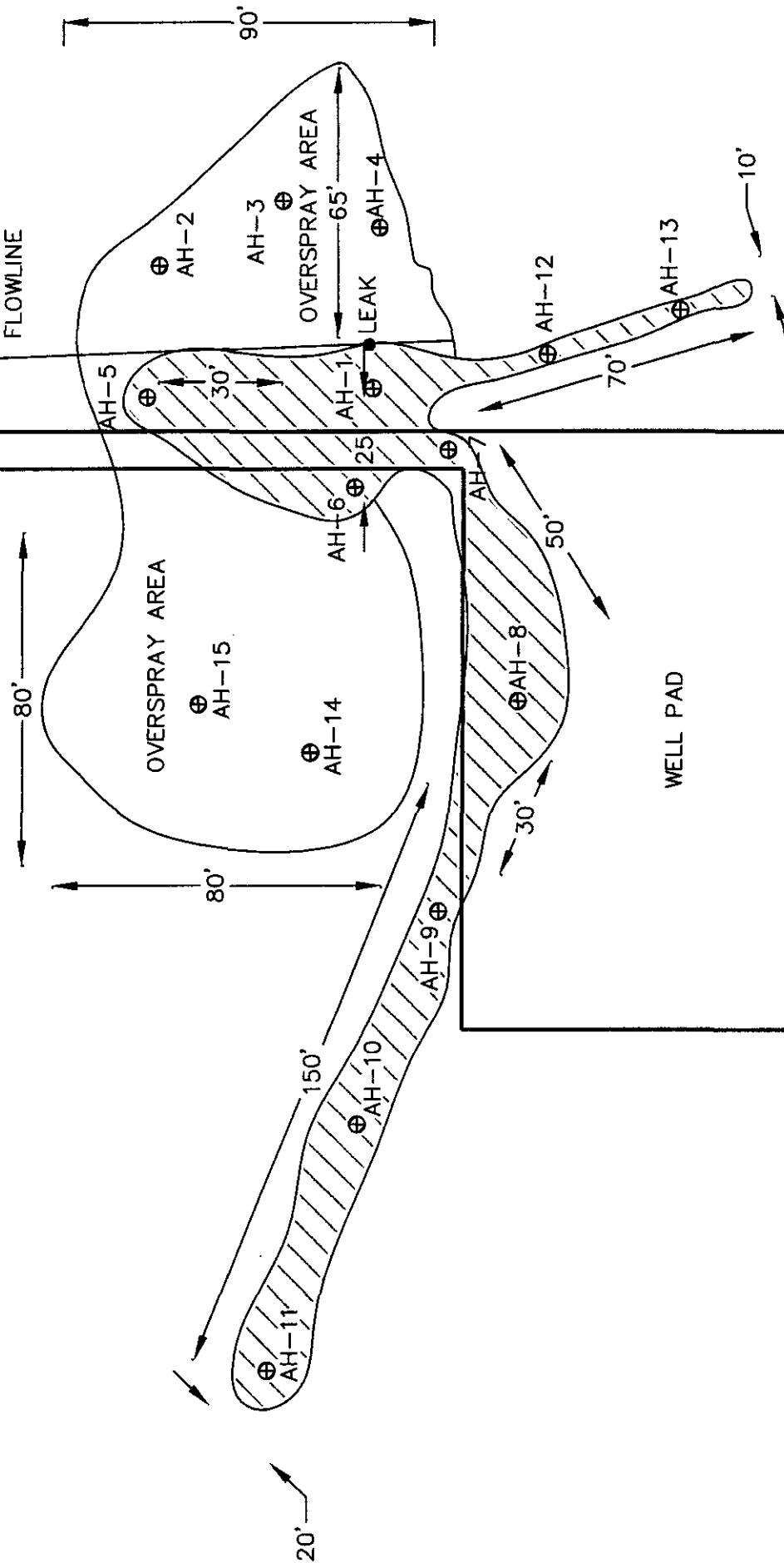


FIGURE NO. 2

EDDY COUNTY, NEW MEXICO

GLENN SPRINGS HOLDINGS, INC.
PURE GOLD FED #8

TETRA TECH, INC.
MIDLAND, TEXAS

DATE	10/18/07
DRAWN BY	RC
FILE	C:\P\0704\0704.P

NOT TO SCALE

- ⊕ AUGER HOLE
- ▨ SPILL AREA

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-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	<i>Pogo Producing Company</i>	Contact	<i>PATRICK ELLIS</i>
Address	<i>P.O. Box 10340 Midland TX 79702</i>	Telephone No.	<i>(432) 685-8148</i>
Facility Name	<i>PURE Gold B Federal #8</i>	Facility Type	<i>Flow line</i>
Surface Owner	Mineral Owner	Lease No. <i>NM-38463</i>	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>H</i>	<i>20</i>	<i>23S</i>	<i>31E</i>	<i>1980</i>	<i>North</i>	<i>380</i>	<i>East</i>	<i>Eddy</i>

Latitude *32° 17748* Longitude *103° 47518*

NATURE OF RELEASE

Type of Release	<i>Produced fluid</i>	Volume of Release	<i>135 BBLs</i>	Volume Recovered	<i>123 BBLs</i>
Source of Release	<i>Flow line release</i>	Date and Hour of Occurrence	Date and Hour of Discovery		
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	<i>9-23-07 10:00 AM</i> <i>JIM AMOS BLM</i>		
By Whom?	<i>PATRICK ELLIS</i>	Date and Hour	<i>9-24-07 1:00 PM</i>		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

None

Describe Cause of Problem and Remedial Action Taken.*

Restriction in flowline created high line pressure CAUSING flowline to leak. Well was shut-in. All free floating product was picked up by vacuum truck AND HIGHLANDER ENVIRONMENTAL WAS CALLED TO TAKE SOIL SAMPLES.

Describe Area Affected and Cleanup Action Taken.*

UPON EVALUATION OF SOIL SAMPLES, A WORK PLAN WILL BE SUBMITTED. AREA AFFECTED WAS PASTURE AREA NEAR FLOWLINE.

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.

OIL CONSERVATION DIVISION

Signature: <i>Patrick L. Ellis</i>	Approved by District Supervisor:		
Printed Name: <i>PATRICK L. ELLIS</i>	Approval Date:	Expiration Date:	
Title: <i>EHS SUPERVISOR</i>	Conditions of Approval:		Attached ☐
E-mail Address: <i>ellispe@pogoproducing.com</i>			
Date: <i>9-24-07</i> Phone: <i>(432) 685-8148</i>			

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company OXY USA, INC	Contact Mark Andersen
Address P.O. Box 50250, Midland, TX 79710	Telephone No. 432-685-5600
Facility Name Pure Gold B Federal #8 Well Site	Facility Type Well Site

Surface Owner	Mineral Owner	Lease No. NM 38463
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LOCATION OF RELEASE

Unit Letter H	Section 20	Township 23S	Range 31E	Feet from the 1980'	North/South Line North	Feet from the 380'	East/West Line East	County Eddy
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Fluid	Volume of Release 135 Bbls	Volume Recovered 123 Bbls
Source of Release Flow line	Date and Hour of Occurrence 9/23/07	Date and Hour of Discovery 9/23/07 10:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Jim Amos, BLM	
By Whom? Pat Ellis (Pogo)	Date and Hour 9/24/07 1:00 pm	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Restriction in flow line created high line pressure causing flow line to leak. Well was shut in. All free floating fluid was picked up by vacuum truck and Highlander/Tetra Tech was contacted to investigate.

Describe Area Affected and Cleanup Action Taken.*

Spill areas were sampled and defined. Impacted areas with TPH above the RRAL and areas with elevated chloride concentrations were excavated and the soils were hauled to Lea Land for disposal.

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: 	OIL CONSERVATION DIVISION		
Printed Name: Ike Tavarez	Approved by District Supervisor:		
Title: Sr. PM (Tetra Tech, Agent for OXY USA, Inc.)	Approval Date:	Expiration Date:	
E-mail Address: ismael.tavarez@tetratech.com	Conditions of Approval:		Attached ☐
Date: 1/20/2010	Phone: 432-682-4559		

* Attach Additional Sheets If Necessary

APPENDIX B

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

LOCATION NUMBER	OWNER OR NAME	DATE COM- PLETED	TOPOGRAPHIC SITUATION	ALTITUDE ABOVE SEA LEVEL (feet)	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	PRINCIPAL WATER-BEARING BED	
							CHARACTER OF MATERIAL	GEOLOGIC UNIT
23.28.22.433	J. Joyce	-	Orchard Park Terrace	3,031	174	-	Alluvium	Quaternary
23.133	Donaldson	-	Hillside	3,020	-	-	do.	do.
23.433	S. F. Williams	-	East slope	3,008	130	16	do.	do.
24.134	B. Yarbrow	-	do.	2,992	96	-	do.	do.
25.213	Ray Howard	-	do.	2,990	200	18	do.	do.
29.144	Kelly-Polk	-	Orchard Park Terrace	3,100	190	18	do.	do.
29.411	-	-	do.	3,101	-	14	do.	do.
23.30.2.440	James Bros.	-	E. trending spur	3,250	300	5	Redbeds	Dockum or Rustler
6.110	do.	-	Closed depression	3,000	200	12 (?)	do.	Rustler
6.420	Nash well	-	do.	2,980	-	-	Alluvium	Quaternary
21.122	Indian well	-	Valley	3,165	-	12	Redbeds	Rustler
23.31.7.220	James Head- quarters	1900 (?)	Rolling	3,310	180	12	do.	Dockum

e explanation at beginning of table.

NEW MEXICO BUREAU OF MINES & MINERAL RESOURCES

GROUND WATER

LOCATION NUMBER	WATER LEVEL		YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARKS
	BELOW LAND SURFACE (feet)	DATE OF MEASUREMENT				
23.28.22.433	38.5	Feb. 8, 1947	1,200	T	I	See analysis, Table 3.
23.133	52.4	Sept. 22, 1947	-	T	I	
23.433	38	-	1,100 ¹	T	I	
24.134	52.3	Sept. 22, 1947	1,200	T	I	Depth to water measured while pump- ing. See analysis, Table 3.
25.213	39.1	Sept. 23, 1947	1,000 R.	T	I	Cased to 70 ft.
29.144	28.7	Sept. 25, 1947	-	N	N	Abandoned (?)
29.411	20.7	Jan. 13, 1948	-	N	I	
23.30.2.440	250.0	Dec. 22, 1948	-	W & G	S	See analysis, Table 3.
6.110	110.0	do.	-	W	S	
6.420	-	-	-	W	S	
21.122	-	-	3	W & G	S	See analysis, Table 3.
23.31.7.220	140	-	10 E.	W	S	Two wells here.

e explanation at beginning of table.
¹ measured Sept. 23, 1947.

EDDY COUNTY



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02258	PRO	XX		3	2	26	23S	31E		618055	3571853*	662		
C 02348	STK	ED		2	3	26	23S	31E		617658	3571446*	500		
C 02492	COM	ED		4	4	4	06	23S	31E	612056	3577320*	135	85	50
C 02602	SAN	ED		2	2	35	23S	31E		618471	3570650*	450		
C 02664	MON	ED		3	3	2	05	23S	31E	613049	3578138*	4291	354	3937
C 02725	MON	ED		1	1	1	05	23S	31E	612240	3578731*	532		
C 02773	MON	ED		4	1	3	03	23S	31E	615668	3577762*	880		
C 02774	MON	ED		3	1	3	04	23S	31E	613857	3577745*	1660		
C 02775	MON	ED		1	1	1	05	23S	31E	612240	3578731*	529		
C 02776	MON	ED		2	1	1	05	23S	31E	612440	3578731*	661		
C 02777	MON	ED		2	2	2	15	23S	31E	616905	3575562*	1001		
C 02865	EXP	ED		4	4	4	06	23S	31E	612056	3577320*	174		
C 02954 EXPL	EXP	ED		3	1	4	20	23S	31E	613114	3572906*	905		
C 03140	MON	ED		4	2	4	04	23S	31E	615266	3577758*	684		
C 03351 POD1	STK	ED		4	1	4	04	23S	31E	614863	3577753*	320	168	152

Average Depth to Water: **202 feet**

Minimum Depth: **85 feet**

Maximum Depth: **354 feet**

Record Count: 15

PLSS Search:

Township: 23S

Range: 31E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX C

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: October 10, 2007

Work Order: 7100339



Project Location: Eddy County, NM
Project Name: Pogo/Pure Gold Fed #8
Project Number: 3232

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
138315	AH-1 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138316	AH-1 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138317	AH-1 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138318	AH-1 (3.0'-3.5')	soil	2007-09-25	00:00	2007-10-03
138319	AH-1 (4.0'-4.5')	soil	2007-09-25	00:00	2007-10-03
138320	AH-1 (5.0'-5.5')	soil	2007-09-25	00:00	2007-10-03
138321	AH-1 (6.0'-6.5')	soil	2007-09-25	00:00	2007-10-03
138322	AH-1 (8.0'-8.5')	soil	2007-09-25	00:00	2007-10-03
138323	AH-1 (10.0'-10.5')	soil	2007-09-25	00:00	2007-10-03
138324	AH-2 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138325	AH-2 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138326	AH-3 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138327	AH-3 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138328	AH-4 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138329	AH-4 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138330	AH-5 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138331	AH-5 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138332	AH-5 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138333	AH-6 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138334	AH-6 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138335	AH-6 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138336	AH-6 (3.0'-3.5')	soil	2007-09-25	00:00	2007-10-03
138337	AH-6 (4.0'-4.5')	soil	2007-09-25	00:00	2007-10-03
138338	AH-7 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138339	AH-7 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138340	AH-8 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138341	AH-8 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138342	AH-9 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138343	AH-9 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138344	AH-9 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138345	AH-9 (3.0'-3.5')	soil	2007-09-25	00:00	2007-10-03
138346	AH-10 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138347	AH-10 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138348	AH-10 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138349	AH-11 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138350	AH-11 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
138351	AH-11 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138352	AH-12 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138353	AH-12 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138354	AH-13 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138355	AH-13 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138356	AH-14 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138357	AH-15 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03

Sample - Field Code	BTX				TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
138315 - AH-1 (0'-1.0')	<0.100	2.17	2.78	11.6	4740	421
138316 - AH-1 (1.0'-1.5')					<50.0	2.02
138317 - AH-1 (2.0'-2.5')					<50.0	<1.00
138324 - AH-2 (0'-1.0')					<50.0	<1.00
138328 - AH-3 (0'-1.0')					<50.0	<1.00
138328 - AH-4 (0'-1.0')					<50.0	<1.00
138330 - AH-5 (0'-1.0')					353	14.2
138331 - AH-5 (1.0'-1.5')					<50.0	<1.00
138332 - AH-5 (2.0'-2.5')	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
138333 - AH-6 (0'-1.0')	<0.0500	3.52	4.21	17.5	5480	1260
138334 - AH-6 (1.0'-1.5')					71.8	4.03
138335 - AH-6 (2.0'-2.5')					<50.0	1.01
138338 - AH-7 (0'-1.0')	<0.0500	0.0982	0.485	2.38	1200	72.3
138340 - AH-8 (0'-1.0')					221	17.0
138342 - AH-9 (0'-1.0')					198	18.2
138346 - AH-10 (0'-1.0')					<50.0	<1.00
138349 - AH-11 (0'-1.0')					<50.0	<1.00
138352 - AH-12 (0'-1.0')					<50.0	<1.00
138354 - AH-13 (0'-1.0')					<50.0	<1.00
138356 - AH-14 (0'-1.0')					<50.0	<1.00
138357 - AH-15 (0'-1.0')					<50.0	<1.00

Sample: 138315 - AH-1 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		8580	mg/Kg	2.00

Sample: 138316 - AH-1 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		9840	mg/Kg	2.00

Sample: 138317 - AH-1 (2.0'-2.5')

Param	Flag	Result	Units	RL
Chloride		9330	mg/Kg	2.00

Sample: 138318 - AH-1 (3.0'-3.5')

Param	Flag	Result	Units	RL
Chloride		20600	mg/Kg	2.00

Sample: 138319 - AH-1 (4.0'-4.5')

Param	Flag	Result	Units	RL
Chloride		18600	mg/Kg	2.00

Sample: 138320 - AH-1 (5.0'-5.5')

Param	Flag	Result	Units	RL
Chloride		8840	mg/Kg	2.00

Sample: 138321 - AH-1 (6.0'-6.5')

Param	Flag	Result	Units	RL
Chloride		3870	mg/Kg	2.00

Sample: 138322 - AH-1 (8.0'-8.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138323 - AH-1 (10.0'-10.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138324 - AH-2 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138325 - AH-2 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138326 - AH-3 (0'- 1.0')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138327 - AH-3 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138328 - AH-4 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138329 - AH-4 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138330 - AH-5 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		2500	mg/Kg	2.00

Sample: 138331 - AH-5 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138332 - AH-5 (2.0'-2.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138333 - AH-6 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		10600	mg/Kg	2.00

Sample: 138334 - AH-6 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		9990	mg/Kg	2.00

Sample: 138335 - AH-6 (2.0'-2.5')

continued ...

sample 138335 continued ...

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	RL
Chloride		878	mg/Kg	2.00

Sample: 138336 - AH-6 (3.0'-3.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138337 - AH-6 (4.0'-4.5')

Param	Flag	Result	Units	RL
Chloride		425	mg/Kg	2.00

Sample: 138338 - AH-7 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		770	mg/Kg	2.00

Sample: 138339 - AH-7 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		196	mg/Kg	2.00

Sample: 138340 - AH-8 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		6320	mg/Kg	2.00

Sample: 138341 - AH-8 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138342 - AH-9 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		2530	mg/Kg	2.00

Sample: 138343 - AH-9 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		3990	mg/Kg	2.00

Sample: 138344 - AH-9 (2.0'-2.5')

Param	Flag	Result	Units	RL
Chloride		202	mg/Kg	2.00

Sample: 138345 - AH-9 (3.0'-3.5')

Param	Flag	Result	Units	RL
Chloride		244	mg/Kg	2.00

Sample: 138346 - AH-10 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		244	mg/Kg	2.00

Sample: 138347 - AH-10 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		180	mg/Kg	2.00

Sample: 138348 - AH-10 (2.0'-2.5')

Param	Flag	Result	Units	RL
Chloride		132	mg/Kg	2.00

Sample: 138349 - AH-11 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		126	mg/Kg	2.00

Sample: 138350 - AH-11 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		247	mg/Kg	2.00

Sample: 138351 - AH-11 (2.0'-2.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138352 - AH-12 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		159	mg/Kg	2.00

Sample: 138353 - AH-12 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		175	mg/Kg	2.00

Sample: 138354 - AH-13 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		192	mg/Kg	2.00

Sample: 138355 - AH-13 (1.0'-1.5')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138356 - AH-14 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		121	mg/Kg	2.00

Sample: 138357 - AH-15 (0'-1.0')

Param	Flag	Result	Units	RL
Chloride		378	mg/Kg	2.00



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E-Mail: tab@traceanalysis.com

Analytical and Quality Control Report

Ike Tavaraz
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: October 10, 2007

Work Order: 7100339



Project Location: Eddy County, NM
Project Name: Pogo/Pure Gold Fed #8
Project Number: 3232

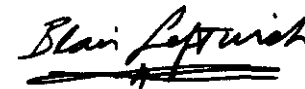
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
138315	AH-1 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138316	AH-1 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138317	AH-1 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138318	AH-1 (3.0'-3.5')	soil	2007-09-25	00:00	2007-10-03
138319	AH-1 (4.0'-4.5')	soil	2007-09-25	00:00	2007-10-03
138320	AH-1 (5.0'-5.5')	soil	2007-09-25	00:00	2007-10-03
138321	AH-1 (6.0'-6.5')	soil	2007-09-25	00:00	2007-10-03
138322	AH-1 (8.0'-8.5')	soil	2007-09-25	00:00	2007-10-03
138323	AH-1 (10.0'-10.5')	soil	2007-09-25	00:00	2007-10-03
138324	AH-2 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138325	AH-2 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138326	AH-3 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138327	AH-3 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138328	AH-4 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138329	AH-4 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138330	AH-5 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138331	AH-5 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138332	AH-5 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138333	AH-6 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138334	AH-6 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138335	AH-6 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138336	AH-6 (3.0'-3.5')	soil	2007-09-25	00:00	2007-10-03
138337	AH-6 (4.0'-4.5')	soil	2007-09-25	00:00	2007-10-03

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
138338	AH-7 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138339	AH-7 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138340	AH-8 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138341	AH-8 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138342	AH-9 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138343	AH-9 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138344	AH-9 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138345	AH-9 (3.0'-3.5')	soil	2007-09-25	00:00	2007-10-03
138346	AH-10 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138347	AH-10 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138348	AH-10 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138349	AH-11 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138350	AH-11 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138351	AH-11 (2.0'-2.5')	soil	2007-09-25	00:00	2007-10-03
138352	AH-12 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138353	AH-12 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138354	AH-13 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138355	AH-13 (1.0'-1.5')	soil	2007-09-25	00:00	2007-10-03
138356	AH-14 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03
138357	AH-15 (0'-1.0')	soil	2007-09-25	00:00	2007-10-03

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

This report consists of a total of 43 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 138315 - AH-1 (0'-1.0')

Analysis: BTEX
QC Batch: 41788
Prep Batch: 36088

Analytical Method: S 8021B
Date Analyzed: 2007-10-04
Sample Preparation: 2007-10-04

Prep Method: S 5035
Analyzed By:
Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.100	mg/Kg	10	0.0100
Toluene		2.17	mg/Kg	10	0.0100
Ethylbenzene		2.78	mg/Kg	10	0.0100
Xylene		11.6	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		7.40	mg/Kg	10	10.0	74	39.6 - 116
4-Bromofluorobenzene (4-BFB)		10.2	mg/Kg	10	10.0	102	47.3 - 144.2

Sample: 138315 - AH-1 (0'-1.0')

Analysis: Chloride (Titration)
QC Batch: 41874
Prep Batch: 36168

Analytical Method: SM 4500-Cl B
Date Analyzed: 2007-10-09
Sample Preparation:

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8580	mg/Kg	50	2.00

Sample: 138315 - AH-1 (0'-1.0')

Analysis: TPH DRO
QC Batch: 41767
Prep Batch: 36070

Analytical Method: Mod. 8015B
Date Analyzed: 2007-10-04
Sample Preparation: 2007-10-04

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		4740	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹	923	mg/Kg	1	150	615	17.3 - 169.6

Sample: 138315 - AH-1 (0'-1.0')

Analysis: TPH GRO
QC Batch: 41802
Prep Batch: 36088

Analytical Method: S 8015B
Date Analyzed: 2007-10-04
Sample Preparation: 2007-10-04

Prep Method: S 5035
Analyzed By:
Prepared By:

¹ High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		421	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.28	mg/Kg	10	10.0	53	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		11.6	mg/Kg	10	10.0	116	50.8 - 131.6

Sample: 138316 - AH-1 (1.0'-1.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41874 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36168 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9840	mg/Kg	50	2.00

Sample: 138316 - AH-1 (1.0'-1.5')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41767 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

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		192	mg/Kg	1	150	128	17.3 - 169.6

Sample: 138316 - AH-1 (1.0'-1.5')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41802 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36088 Sample Preparation: 2007-10-04 Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.02	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.647	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.880	mg/Kg	1	1.00	88	50.8 - 131.6

Sample: 138317 - AH-1 (2.0'-2.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9330	mg/Kg	50	2.00

Sample: 138317 - AH-1 (2.0'-2.5')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

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		171	mg/Kg	1	150	114	17.3 - 169.6

Sample: 138317 - AH-1 (2.0'-2.5')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41835	Date Analyzed:	2007-10-05	Analyzed By:	
Prep Batch:	36131	Sample Preparation:	2007-10-05	Prepared By:	

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)		0.650	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.857	mg/Kg	1	1.00	86	50.8 - 131.6

Sample: 138318 - AH-1 (3.0'-3.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		20600	mg/Kg	50	2.00

Sample: 138319 - AH-1 (4.0'-4.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		18600	mg/Kg	50	2.00

Sample: 138320 - AH-1 (5.0'-5.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41885	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36176	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8840	mg/Kg	50	2.00

Sample: 138321 - AH-1 (6.0'-6.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41885	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36176	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3870	mg/Kg	50	2.00

Sample: 138322 - AH-1 (8.0'-8.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41885	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36176	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138323 - AH-1 (10.0'-10.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41885	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36176	Sample Preparation:		Prepared By:	AR

continued ...

sample 138323 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138324 - AH-2 (0'-1.0')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41885 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36176 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138324 - AH-2 (0'-1.0')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41767 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

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		183	mg/Kg	1	150	122	17.3 - 169.6

Sample: 138324 - AH-2 (0'-1.0')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41835 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

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)		0.649	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.866	mg/Kg	1	1.00	87	50.8 - 131.6

Sample: 138325 - AH-2 (1.0'-1.5')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41885	Date Analyzed: 2007-10-09	Analyzed By: AR
Prep Batch: 36176	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138326 - AH-3 (0'- 1.0')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41885	Date Analyzed: 2007-10-09	Analyzed By: AR
Prep Batch: 36176	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138326 - AH-3 (0'- 1.0')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 41767	Date Analyzed: 2007-10-04	Analyzed By:
Prep Batch: 36070	Sample Preparation: 2007-10-04	Prepared By:

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		171	mg/Kg	1	150	114	17.3 - 169.6

Sample: 138326 - AH-3 (0'- 1.0')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41835	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

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)		0.653	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.839	mg/Kg	1	1.00	84	50.8 - 131.6

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Sample: 138327 - AH-3 (1.0'-1.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41885	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36176	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138328 - AH-4 (0'-1.0')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41885	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36176	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138328 - AH-4 (0'-1.0')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

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		191	mg/Kg	1	150	127	17.3 - 169.6

Sample: 138328 - AH-4 (0'-1.0')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41835	Date Analyzed:	2007-10-05	Analyzed By:	
Prep Batch:	36131	Sample Preparation:	2007-10-05	Prepared By:	

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)		0.647	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	1	1.00	84	50.8 - 131.6

Sample: 138329 - AH-4 (1.0'-1.5')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41885	Date Analyzed: 2007-10-09	Analyzed By: AR
Prep Batch: 36176	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138330 - AH-5 (0'-1.0')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41887	Date Analyzed: 2007-10-09	Analyzed By: AR
Prep Batch: 36178	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2500	mg/Kg	50	2.00

Sample: 138330 - AH-5 (0'-1.0')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 41767	Date Analyzed: 2007-10-04	Analyzed By:
Prep Batch: 36070	Sample Preparation: 2007-10-04	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		353	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		216	mg/Kg	1	150	144	17.3 - 169.6

Sample: 138330 - AH-5 (0'-1.0')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41835	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		14.2	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.28	mg/Kg	2	2.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.80	mg/Kg	2	2.00	90	50.8 - 131.6

Sample: 138331 - AH-5 (1.0'-1.5')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41887	Date Analyzed: 2007-10-09	Analyzed By: AR
Prep Batch: 36178	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138331 - AH-5 (1.0'-1.5')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 41767	Date Analyzed: 2007-10-04	Analyzed By:
Prep Batch: 36070	Sample Preparation: 2007-10-04	Prepared By:

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		202	mg/Kg	1	150	135	17.3 - 169.6

Sample: 138331 - AH-5 (1.0'-1.5')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41835	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

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)		0.646	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.850	mg/Kg	1	1.00	85	50.8 - 131.6

Sample: 138332 - AH-5 (2.0'-2.5')

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 41851	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

Comment: Added for QC purposes only.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100

continued ...

sample 138332 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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)		0.938	mg/Kg	1	1.00	94	39.6 - 116
4-Bromofluorobenzene (4-BFB)		0.849	mg/Kg	1	1.00	85	47.3 - 144.2

Sample: 138332 - AH-5 (2.0'-2.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41887 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36178 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138332 - AH-5 (2.0'-2.5')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41767 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

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		199	mg/Kg	1	150	133	17.3 - 169.6

Sample: 138332 - AH-5 (2.0'-2.5')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41835 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

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)		0.642	mg/Kg	1	1.00	64	50.2 - 89.3

continued ...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.860	mg/Kg	1	1.00	86	50.8 - 131.6

Sample: 138333 - AH-6 (0'-1.0')

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 41851	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		3.52	mg/Kg	5	0.0100
Ethylbenzene		4.21	mg/Kg	5	0.0100
Xylene		17.5	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.23	mg/Kg	5	5.00	85	39.6 - 116
4-Bromofluorobenzene (4-BFB)		6.56	mg/Kg	5	5.00	131	47.3 - 144.2

Sample: 138333 - AH-6 (0'-1.0')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41887	Date Analyzed: 2007-10-09	Analyzed By: AR
Prep Batch: 36178	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10600	mg/Kg	50	2.00

Sample: 138333 - AH-6 (0'-1.0')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 41768	Date Analyzed: 2007-10-04	Analyzed By:
Prep Batch: 36070	Sample Preparation: 2007-10-04	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		5480	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	²	1100	mg/Kg	5	150	733	17.3 - 169.6

²High surrogate recovery due to peak interference.

Sample: 138333 - AH-6 (0'-1.0')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41914	Date Analyzed: 2007-10-09	Analyzed By:
Prep Batch: 36203	Sample Preparation: 2007-10-09	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1260	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		62.3	mg/Kg	100	100	62	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		88.4	mg/Kg	100	100	88	50.8 - 131.6

Sample: 138334 - AH-6 (1.0'-1.5')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41887	Date Analyzed: 2007-10-09	Analyzed By: AR
Prep Batch: 36178	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9990	mg/Kg	50	2.00

Sample: 138334 - AH-6 (1.0'-1.5')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 41767	Date Analyzed: 2007-10-04	Analyzed By:
Prep Batch: 36070	Sample Preparation: 2007-10-04	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO	B	71.8	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		218	mg/Kg	1	150	145	17.3 - 169.6

Sample: 138334 - AH-6 (1.0'-1.5')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41835	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		4.03	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.643	mg/Kg	1	1.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.21	mg/Kg	1	1.00	121	50.8 - 131.6

Sample: 138335 - AH-6 (2.0'-2.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41887 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36178 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		878	mg/Kg	50	2.00

Sample: 138335 - AH-6 (2.0'-2.5')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41767 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

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		215	mg/Kg	1	150	143	17.3 - 169.6

Sample: 138335 - AH-6 (2.0'-2.5')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41835 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1.01	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.646	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.974	mg/Kg	1	1.00	97	50.8 - 131.6

Sample: 138336 - AH-6 (3.0'-3.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41887 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36178 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138337 - AH-6 (4.0'-4.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41887 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36178 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		425	mg/Kg	50	2.00

Sample: 138338 - AH-7 (0'-1.0')

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 41851 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		0.0982	mg/Kg	5	0.0100
Ethylbenzene		0.485	mg/Kg	5	0.0100
Xylene		2.38	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.61	mg/Kg	5	5.00	92	39.6 - 116
4-Bromofluorobenzene (4-BFB)		4.61	mg/Kg	5	5.00	92	47.3 - 144.2

Sample: 138338 - AH-7 (0'-1.0')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		770	mg/Kg	50	2.00

Sample: 138338 - AH-7 (0'-1.0')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41767 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1200	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	³	354	mg/Kg	1	150	236	17.3 - 169.6

Sample: 138338 - AH-7 (0'-1.0')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41835	Date Analyzed:	2007-10-05	Analyzed By:	
Prep Batch:	36131	Sample Preparation:	2007-10-05	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		72.3	mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3.29	mg/Kg	5	5.00	66	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		4.99	mg/Kg	5	5.00	100	50.8 - 131.6

Sample: 138339 - AH-7 (1.0'-1.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41935	Date Analyzed:	2007-10-10	Analyzed By:	AR
Prep Batch:	36219	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		196	mg/Kg	50	2.00

Sample: 138340 - AH-8 (0'-1.0')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41935	Date Analyzed:	2007-10-10	Analyzed By:	AR
Prep Batch:	36219	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		6320	mg/Kg	50	2.00

Sample: 138340 - AH-8 (0'-1.0')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

³High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		221	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		228	mg/Kg	1	150	152	17.3 - 169.6

Sample: 138340 - AH-8 (0'-1.0')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41835 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		17.0	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.28	mg/Kg	2	2.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		2.11	mg/Kg	2	2.00	106	50.8 - 131.6

Sample: 138341 - AH-8 (1.0'-1.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138342 - AH-9 (0'-1.0')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2530	mg/Kg	50	2.00

Sample: 138342 - AH-9 (0'-1.0')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41768 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		198	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		229	mg/Kg	1	150	153	17.3 - 169.6

Sample: 138342 - AH-9 (0'-1.0')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41835 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		18.2	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.28	mg/Kg	2	2.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.96	mg/Kg	2	2.00	98	50.8 - 131.6

Sample: 138343 - AH-9 (1.0'-1.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3990	mg/Kg	50	2.00

Sample: 138344 - AH-9 (2.0'-2.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		202	mg/Kg	50	2.00

Sample: 138345 - AH-9 (3.0'-3.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		244	mg/Kg	50	2.00

Sample: 138346 - AH-10 (0'-1.0')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		244	mg/Kg	50	2.00

Sample: 138346 - AH-10 (0'-1.0')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41767 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

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		215	mg/Kg	1	150	143	17.3 - 169.6

Sample: 138346 - AH-10 (0'-1.0')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41835 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

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)		0.642	mg/Kg	1	1.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.878	mg/Kg	1	1.00	88	50.8 - 131.6

Sample: 138347 - AH-10 (1.0'-1.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		180	mg/Kg	50	2.00

Sample: 138348 - AH-10 (2.0'-2.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41936 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36220 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		132	mg/Kg	1	2.00

Sample: 138349 - AH-11 (0'-1.0')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41936 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36220 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		126	mg/Kg	50	2.00

Sample: 138349 - AH-11 (0'-1.0')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41768 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

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		229	mg/Kg	1	150	153	17.3 - 169.6

Sample: 138349 - AH-11 (0'-1.0')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 41835 Date Analyzed: 2007-10-05 Analyzed By:
Prep Batch: 36131 Sample Preparation: 2007-10-05 Prepared By:

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)		0.650	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.812	mg/Kg	1	1.00	81	50.8 - 131.6

Sample: 138350 - AH-11 (1.0'-1.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41936 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36220 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		247	mg/Kg	50	2.00

Sample: 138351 - AH-11 (2.0'-2.5')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41936 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36220 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138352 - AH-12 (0'-1.0')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 41936 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36220 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		159	mg/Kg	50	2.00

Sample: 138352 - AH-12 (0'-1.0')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 41768 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 Sample Preparation: 2007-10-04 Prepared By:

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		225	mg/Kg	1	150	150	17.3 - 169.6

Sample: 138352 - AH-12 (0'-1.0')

Analysis: TPH GRO
QC Batch: 41835
Prep Batch: 36131

Analytical Method: S 8015B
Date Analyzed: 2007-10-05
Sample Preparation: 2007-10-05

Prep Method: S 5035
Analyzed By:
Prepared By:

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)		0.644	mg/Kg	1	1.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.860	mg/Kg	1	1.00	86	50.8 - 131.6

Sample: 138353 - AH-12 (1.0'-1.5')

Analysis: Chloride (Titration)
QC Batch: 41936
Prep Batch: 36220

Analytical Method: SM 4500-Cl B
Date Analyzed: 2007-10-10
Sample Preparation:

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		175	mg/Kg	50	2.00

Sample: 138354 - AH-13 (0'-1.0')

Analysis: Chloride (Titration)
QC Batch: 41936
Prep Batch: 36220

Analytical Method: SM 4500-Cl B
Date Analyzed: 2007-10-10
Sample Preparation:

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		192	mg/Kg	50	2.00

Sample: 138354 - AH-13 (0'-1.0')

Analysis: TPH DRO
QC Batch: 41768
Prep Batch: 36070

Analytical Method: Mod. 8015B
Date Analyzed: 2007-10-04
Sample Preparation: 2007-10-04

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

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		222	mg/Kg	1	150	148	17.3 - 169.6

Sample: 138354 - AH-13 (0'-1.0')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41835	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

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)		0.652	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.854	mg/Kg	1	1.00	85	50.8 - 131.6

Sample: 138355 - AH-13 (1.0'-1.5')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41936	Date Analyzed: 2007-10-10	Analyzed By: AR
Prep Batch: 36220	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138356 - AH-14 (0'-1.0')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41936	Date Analyzed: 2007-10-10	Analyzed By: AR
Prep Batch: 36220	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		121	mg/Kg	50	2.00

Sample: 138356 - AH-14 (0'-1.0')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 41768	Date Analyzed: 2007-10-04	Analyzed By:
Prep Batch: 36070	Sample Preparation: 2007-10-04	Prepared By:

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		213	mg/Kg	1	150	142	17.3 - 169.6

Sample: 138356 - AH-14 (0'-1.0')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41835	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

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)		0.648	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.848	mg/Kg	1	1.00	85	50.8 - 131.6

Sample: 138357 - AH-15 (0'-1.0')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 41936	Date Analyzed: 2007-10-10	Analyzed By: AR
Prep Batch: 36220	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		378	mg/Kg	50	2.00

Sample: 138357 - AH-15 (0'-1.0')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 41768	Date Analyzed: 2007-10-04	Analyzed By:
Prep Batch: 36070	Sample Preparation: 2007-10-04	Prepared By:

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		182	mg/Kg	1	150	121	17.3 - 169.6

Sample: 138357 - AH-15 (0'-1.0')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 41835	Date Analyzed: 2007-10-05	Analyzed By:
Prep Batch: 36131	Sample Preparation: 2007-10-05	Prepared By:

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)		0.645	mg/Kg	1	1.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.837	mg/Kg	1	1.00	84	50.8 - 131.6

Method Blank (1) QC Batch: 41767

QC Batch: 41767
Prep Batch: 36070

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		18.9	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		170	mg/Kg	1	150	113	32.9 - 156.1

Method Blank (1) QC Batch: 41768

QC Batch: 41768
Prep Batch: 36070

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		144	mg/Kg	1	150	96	32.9 - 156.1

Method Blank (1) QC Batch: 41788

QC Batch: 41788
Prep Batch: 36088

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.868	mg/Kg	1	1.00	87	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.587	mg/Kg	1	1.00	59	53.1 - 111.6

Method Blank (1) QC Batch: 41802

QC Batch: 41802
Prep Batch: 36088

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.706	mg/Kg	1	1.00	71	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.566	mg/Kg	1	1.00	57	55.4 - 111.8

Method Blank (1) QC Batch: 41835

QC Batch: 41835
Prep Batch: 36131

Date Analyzed: 2007-10-05
QC Preparation: 2007-10-05

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.720	mg/Kg	1	1.00	72	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.619	mg/Kg	1	1.00	62	55.4 - 111.8

Method Blank (1) QC Batch: 41851

QC Batch: 41851
Prep Batch: 36131

Date Analyzed: 2007-10-05
QC Preparation: 2007-10-05

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.880	mg/Kg	1	1.00	88	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.640	mg/Kg	1	1.00	64	53.1 - 111.6

Method Blank (1) QC Batch: 41874

QC Batch: 41874
Prep Batch: 36168

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 41885

QC Batch: 41885 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36176 QC Preparation: 2007-10-09 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 41887

QC Batch: 41887 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36176 QC Preparation: 2007-10-09 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 41914

QC Batch: 41914 Date Analyzed: 2007-10-09 Analyzed By:
Prep Batch: 36203 QC Preparation: 2007-10-09 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.716	mg/Kg	1	1.00	72	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.644	mg/Kg	1	1.00	64	55.4 - 111.8

Method Blank (1) QC Batch: 41935

QC Batch: 41935 Date Analyzed: 2007-10-10 Analyzed By: AR
Prep Batch: 36219 QC Preparation: 2007-10-10 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 41936

QC Batch: 41936
Prep Batch: 36220

Date Analyzed: 2007-10-10
QC Preparation: 2007-10-10

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch: 41767
Prep Batch: 36070

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	345	mg/Kg	1	250	<13.4	138	49.1 - 142.3

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	349	mg/Kg	1	250	<13.4	140	49.1 - 142.3	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	163	175	mg/Kg	1	150	109	117	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 41768
Prep Batch: 36070

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	261	mg/Kg	1	250	<13.4	104	49.1 - 142.3

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	286	mg/Kg	1	250	<13.4	114	49.1 - 142.3	9	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	156	163	mg/Kg	1	150	104	109	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 41788
Prep Batch: 36088

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.928	mg/Kg	1	1.00	<0.00110	93	71.2 - 119
Toluene	0.934	mg/Kg	1	1.00	<0.00150	93	76.3 - 116.5
Ethylbenzene	0.949	mg/Kg	1	1.00	<0.00160	95	77.6 - 114
Xylene	2.85	mg/Kg	1	3.00	<0.00410	95	78.8 - 113.9

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	0.885	mg/Kg	1	1.00	<0.00110	88	71.2 - 119	5	20
Toluene	0.910	mg/Kg	1	1.00	<0.00150	91	76.3 - 116.5	3	20
Ethylbenzene	0.914	mg/Kg	1	1.00	<0.00160	91	77.6 - 114	4	20
Xylene	2.76	mg/Kg	1	3.00	<0.00410	92	78.8 - 113.9	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.812	0.809	mg/Kg	1	1.00	81	81	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.766	0.752	mg/Kg	1	1.00	77	75	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 41802
Prep Batch: 36088

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.16	mg/Kg	1	10.0	<0.739	72	56 - 105.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.31	mg/Kg	1	10.0	<0.739	73	56 - 105.2	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.876	0.880	mg/Kg	1	1.00	88	88	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.770	0.784	mg/Kg	1	1.00	77	78	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 41835
Prep Batch: 36131

Date Analyzed: 2007-10-05
QC Preparation: 2007-10-05

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.13	mg/Kg	1	10.0	<0.739	71	56 - 105.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.14	mg/Kg	1	10.0	<0.739	71	56 - 105.2	0	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)	0.900	0.850	mg/Kg	1	1.00	90	85	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.772	0.832	mg/Kg	1	1.00	77	83	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 41851
Prep Batch: 36131

Date Analyzed: 2007-10-05
QC Preparation: 2007-10-05

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.881	mg/Kg	1	1.00	<0.00110	88	71.2 - 119
Toluene	0.902	mg/Kg	1	1.00	<0.00150	90	76.3 - 116.5
Ethylbenzene	0.904	mg/Kg	1	1.00	<0.00160	90	77.6 - 114
Xylene	2.72	mg/Kg	1	3.00	<0.00410	91	78.8 - 113.9

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	0.892	mg/Kg	1	1.00	<0.00110	89	71.2 - 119	1	20
Toluene	0.914	mg/Kg	1	1.00	<0.00150	91	76.3 - 116.5	1	20
Ethylbenzene	0.904	mg/Kg	1	1.00	<0.00160	90	77.6 - 114	0	20
Xylene	2.74	mg/Kg	1	3.00	<0.00410	91	78.8 - 113.9	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.806	0.804	mg/Kg	1	1.00	81	80	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.759	0.744	mg/Kg	1	1.00	76	74	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 41874
Prep Batch: 36168

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<0.500	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	99.6	mg/Kg	1	100	<0.500	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: 41885
Prep Batch: 36176

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	94.1	mg/Kg	1	100	<0.500	94	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	95.3	mg/Kg	1	100	<0.500	95	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: 41887
Prep Batch: 36178

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	103	mg/Kg	1	100	<0.500	103	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	104	mg/Kg	1	100	<0.500	104	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: 41914
Prep Batch: 36203

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.64	mg/Kg	1	10.0	<0.739	76	56 - 105.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.76	mg/Kg	1	10.0	<0.739	78	56 - 105.2	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.961	0.964	mg/Kg	1	1.00	96	96	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.817	0.817	mg/Kg	1	1.00	82	82	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 41935
Prep Batch: 36219

Date Analyzed: 2007-10-10
QC Preparation: 2007-10-10

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	93.8	mg/Kg	1	100	<0.500	94	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	94.9	mg/Kg	1	100	<0.500	95	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: 41936
Prep Batch: 36220

Date Analyzed: 2007-10-10
QC Preparation: 2007-10-10

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.7	mg/Kg	1	100	<0.500	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	99.8	mg/Kg	1	100	<0.500	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: 138305

QC Batch: 41767
Prep Batch: 36070

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	298	mg/Kg	1	250	<13.4	119	30.2 - 201.4

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	260	mg/Kg	1	250	<13.4	104	30.2 - 201.4	14	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	166	180	mg/Kg	1	150	111	120	10 - 194

Matrix Spike (MS-1) Spiked Sample: 138309

QC Batch: 41768
Prep Batch: 36070

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	229	mg/Kg	1	250	<13.4	92	30.2 - 201.4

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	191	mg/Kg	1	250	<13.4	76	30.2 - 201.4	18	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	199	180	mg/Kg	1	150	133	120	10 - 194

Matrix Spike (MS-1) Spiked Sample: 138467

QC Batch: 41788
Prep Batch: 36088

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	5.03	mg/Kg	5	5.00	0.1905	97	65.7 - 119.1
Toluene	4.80	mg/Kg	5	5.00	0.0087	96	47.7 - 153.8
Ethylbenzene	7.86	mg/Kg	5	5.00	2.1707	114	73.5 - 126.3
Xylene	23.7	mg/Kg	5	15.0	6.6022	114	73.6 - 125.9

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	4.38	mg/Kg	5	5.00	0.1905	84	65.7 - 119.1	14	20
Toluene	4.02	mg/Kg	5	5.00	0.0087	80	47.7 - 153.8	18	20
Ethylbenzene	6.95	mg/Kg	5	5.00	2.1707	96	73.5 - 126.3	12	20
Xylene	21.0	mg/Kg	5	15.0	6.6022	96	73.6 - 125.9	12	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)	3.62	3.66	mg/Kg	5	5	72	73	51 - 109.6
4-Bromofluorobenzene (4-BFB)	⁴ 5 6.63	7.25	mg/Kg	5	5	133	145	60.3 - 124.3

⁴High surrogate recovery due to peak interference.

⁵High surrogate recovery due to peak interference.

Matrix Spike (MS-1) Spiked Sample: 138305

QC Batch: 41802
Prep Batch: 36088

Date Analyzed: 2007-10-04
QC Preparation: 2007-10-04

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.68	mg/Kg	1	10.0	3.5312	31	10 - 102.2

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	6.30	mg/Kg	1	10.0	3.5312	28	10 - 102.2	6	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)	0.566	0.563	mg/Kg	1	1	57	56	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	0.903	0.877	mg/Kg	1	1	90	88	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 138332

QC Batch: 41835
Prep Batch: 36131

Date Analyzed: 2007-10-05
QC Preparation: 2007-10-05

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	4.98	mg/Kg	1	10.0	<0.739	50	10 - 102.2

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	^a 6.93	mg/Kg	1	10.0	<0.739	69	10 - 102.2	33	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)	0.568	0.540	mg/Kg	1	1	57	54	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	0.885	0.906	mg/Kg	1	1	88	91	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 138332

QC Batch: 41851
Prep Batch: 36131

Date Analyzed: 2007-10-05
QC Preparation: 2007-10-05

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.989	mg/Kg	1	1.00	<0.00110	99	65.7 - 119.1

continued ...

^aRPD is out of control limits due to extraction process. Use LSC/LCSD to demonstrate method is under control. •

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	1.04	mg/Kg	1	1.00	<0.00150	104	47.7 - 153.8
Ethylbenzene	1.07	mg/Kg	1	1.00	<0.00160	107	73.5 - 126.3
Xylene	3.25	mg/Kg	1	3.00	<0.00410	108	73.6 - 125.9

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	0.943	mg/Kg	1	1.00	<0.00110	94	65.7 - 119.1	5	20
Toluene	0.998	mg/Kg	1	1.00	<0.00150	100	47.7 - 153.8	4	20
Ethylbenzene	1.04	mg/Kg	1	1.00	<0.00160	104	73.5 - 126.3	3	20
Xylene	3.17	mg/Kg	1	3.00	<0.00410	106	73.6 - 125.9	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)	0.811	0.798	mg/Kg	1	1	81	80	51 - 109.6
4-Bromofluorobenzene (4-BFB)	0.849	0.836	mg/Kg	1	1	85	84	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 138319

QC Batch: 41874
Prep Batch: 36168

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	24000	mg/Kg	50	5000	18595	108	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	24000	mg/Kg	50	5000	18595	108	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: 138329

QC Batch: 41885
Prep Batch: 36176

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5190	mg/Kg	50	5000	<25.0	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	<25.0	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: 138337

QC Batch: 41887
Prep Batch: 36178

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5570	mg/Kg	50	5000	424.799	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	5620	mg/Kg	50	5000	424.799	104	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: 138660

QC Batch: 41914
Prep Batch: 36203

Date Analyzed: 2007-10-09
QC Preparation: 2007-10-09

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	4.84	mg/Kg	1	10.0	<0.739	48	10 - 102.2

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	4.76	mg/Kg	1	10.0	<0.739	48	10 - 102.2	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)	0.556	0.540	mg/Kg	1	1	56	54	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	0.856	0.848	mg/Kg	1	1	86	85	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 138347

QC Batch: 41935
Prep Batch: 36219

Date Analyzed: 2007-10-10
QC Preparation: 2007-10-10

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5050	mg/Kg	50	5000	180.467	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	5100	mg/Kg	50	5000	180.467	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: 138357

QC Batch: 41936
Prep Batch: 36220

Date Analyzed: 2007-10-10
QC Preparation: 2007-10-10

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5230	mg/Kg	50	5000	378.289	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	5280	mg/Kg	50	5000	378.289	98	85 - 115	1	20

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

Standard (ICV-1)

QC Batch: 41767

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41767

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	85 - 115	2007-10-04

Standard (CCV-2)

QC Batch: 41767

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	236	94	85 - 115	2007-10-04

Standard (CCV-3)

QC Batch: 41767

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	232	93	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41768

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41768

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	85 - 115	2007-10-04

Standard (CCV-2)

QC Batch: 41768

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	263	105	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41788

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0930	93	85 - 115	2007-10-04
Toluene		mg/Kg	0.100	0.0949	95	85 - 115	2007-10-04
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-10-04
Xylene		mg/Kg	0.300	0.291	97	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41788

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0861	86	85 - 115	2007-10-04
Toluene		mg/Kg	0.100	0.0884	88	85 - 115	2007-10-04
Ethylbenzene		mg/Kg	0.100	0.0873	87	85 - 115	2007-10-04
Xylene		mg/Kg	0.300	0.264	88	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41802

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.906	91	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41802

Date Analyzed: 2007-10-04

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.07	107	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41835

Date Analyzed: 2007-10-05

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.910	91	85 - 115	2007-10-05

Standard (CCV-1)

QC Batch: 41835

Date Analyzed: 2007-10-05

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.10	110	85 - 115	2007-10-05

Standard (ICV-1)

QC Batch: 41851

Date Analyzed: 2007-10-05

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0889	89	85 - 115	2007-10-05
Toluene		mg/Kg	0.100	0.0908	91	85 - 115	2007-10-05
Ethylbenzene		mg/Kg	0.100	0.0910	91	85 - 115	2007-10-05
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2007-10-05

Standard (CCV-1)

QC Batch: 41851

Date Analyzed: 2007-10-05

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0852	85	85 - 115	2007-10-05
Toluene		mg/Kg	0.100	0.0875	88	85 - 115	2007-10-05
Ethylbenzene		mg/Kg	0.100	0.0876	88	85 - 115	2007-10-05
Xylene		mg/Kg	0.300	0.265	88	85 - 115	2007-10-05

Standard (ICV-1)

QC Batch: 41874

Date Analyzed: 2007-10-09

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	2007-10-09

Standard (CCV-1)

QC Batch: 41874

Date Analyzed: 2007-10-09

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	2007-10-09

Standard (ICV-1)

QC Batch: 41885

Date Analyzed: 2007-10-09

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2007-10-09

Standard (CCV-1)

QC Batch: 41885

Date Analyzed: 2007-10-09

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	96.4	96	85 - 115	2007-10-09

Standard (ICV-1)

QC Batch: 41887

Date Analyzed: 2007-10-09

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	95.1	95	85 - 115	2007-10-09

Standard (CCV-1)

QC Batch: 41887

Date Analyzed: 2007-10-09

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	105	105	85 - 115	2007-10-09

Standard (ICV-1)

QC Batch: 41914

Date Analyzed: 2007-10-09

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	85 - 115	2007-10-09

Standard (CCV-1)

QC Batch: 41914

Date Analyzed: 2007-10-09

Analyzed By:

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	85 - 115	2007-10-09

Standard (ICV-1)

QC Batch: 41935

Date Analyzed: 2007-10-10

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2007-10-10

Standard (CCV-1)

QC Batch: 41935

Date Analyzed: 2007-10-10

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	96.0	96	85 - 115	2007-10-10

Report Date: October 10, 2007
3232

Work Order: 7100339
Pogo/Pure Gold Fed #8

Page Number: 43 of 43
Eddy County, NM

Standard (ICV-1)

QC Batch: 41936

Date Analyzed: 2007-10-10

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2007-10-10

Standard (CCV-1)

QC Batch: 41936

Date Analyzed: 2007-10-10

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	2007-10-10

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME:	Logo Producing Co.	SITE MANAGER:	Kim Anderson
--------------	--------------------	---------------	--------------

PROJECT NO.:	PROJECT NAME:
3232	Pyro Pure Gold Fed #8

Eddy Co. NM.
SAMPLE IDENTIFICATION:

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	PROJECT NAME: <i>Fogo Pure Gold Fed #8</i>	SITE MANAGER: <i>Ric Lauer</i>	CLIENT NAME: <i>Fogo Producing Co.</i>	NUMBER OF CONTAINERS		PRESERVATIVE METHOD			
									FILTERED (Y/N)		HCL	HNO3	ICE	NONE
							<i>Eddy Co. HM.</i>							
										SAMPLE IDENTIFICATION.				

3159/25/67	✓	AH-1	0-1	1	✓	✓
138316	✓	AH-1	1-1.5'	1	✓	✓
317	✓	AH-1	2-2.5'	1	✓	✓
318	✓	AH-1	3-3.5'	1	✓	✓
319	✓	AH-1	4-4.5'	1	✓	✓
320	✓	AH-1	5-5.5'	1	✓	✓
321	✓	AH-1	6-6.5'	1	✓	✓
322	✓	AH-1	8-8.5'	1	✓	✓
323	✓	AH-1	10-10.5'	1	✓	✓
324	✓	AH-2	0-1	1	✓	✓

RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: <u>10-3-07</u> Time: <u>2:00</u>	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	SAMPLED BY: (Print & Sign) <i>[Signature]</i>	Date: _____ Time: _____
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	SAMPLES SHIPPED BY: (Circle) FEDEX ☒ HUS ☐	AIRBILL # _____ OTHER _____
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	HAND DELIVERED ☒	UPS _____
RECEIVING LABORATORY: ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____	PHONE: _____	DATE: <u>10-3-07</u>	TIME: <u>14:00</u>	HIGHLANDER CONTACT PERSON: <i>[Signature]</i>	
CONTACT: _____		REMARKS: <u>Run (3) 87x61 High-st TPH 60-17)</u> <u>Run deeper samples if TPH exceeds 5,000 mg/kg</u>		RUSH Charges Authorized: _____ Yes _____ No _____	

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Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: Logo Producing Co.

SITE MANAGER:
K. L. Lander

PROJECT NO:	PROJECT NAME:
3232	Pope/Pink Gold Fed #8

SAMPLE IDENTIFICATION	Eddy Co. HM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION
138305	9/25/07		S		✓	EH-2 (1-1.5')
138326			S		✓	EH-3 (0-1)
327			S		✓	EH-3 (1-1.5')
328			S		✓	EH-4 (0-1)
329			S		✓	EH-4 (1-1.5')
330			S		✓	EH-5 (0-1)
331			S		✓	EH-5 (1-1.5')
332			S		✓	EH-5 (2-2.5')
333						
334						

RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	SAMPLED BY: (Print & Sign) <i>[Signature]</i>	Date: _____ Time: _____
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	SAMPLE SHIPPED BY: (Circle) FERRY _____ BUS _____ UPS _____	AIRBILL # _____ OTHER: _____
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: _____ Time: _____	HIGHLANDER CONTACT PERSON: <i>[Signature]</i>	
RECEIVING LABORATORY: _____		Results by: _____			
ADDRESS: _____		RUSH Charges Authorized: _____			
CITY: _____		Yes _____ No _____			
STATE: _____		ZIP: _____			
PHONE: _____		DATE: 10.3.07 TIME: 14:00			

SAMPLE CONDITION WHEN RECEIVED:		MATRIX:		REMARKS:	
2.50 0 intact		W-Water SL-Sludge S-Soil		SD-Solid O-Other	

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PAGE: 4 OF: 5

ANALYSIS REQUEST

(Circle or Specify Method No.)

5-10

or Specify Method No.)

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

[illegible]

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Analysis Request and Chain of Custody Record

PAGE: 5 OF 5

ANALYSIS REQUEST

(Circle or Specify Method No.)

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME		SITE MANAGER		PROJECT NAME		PROJECT NO.		DATE		TIME		LAB I.D. NUMBER		MATRIX		COMP		GRAB		SAMPLE IDENTIFICATION		PRESERVATIVE METHOD		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNO3		ICE		NONE		BTEX 8020/802		MTBE 8020/802		TPH 4101 8016 MOD		FAH 8270		RCRA Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Volatiles		TCIP Semi Volatiles		RCI		GC/MS Vol. 8240/8260/824		GC/MS Semi. Vol. 8270/828		PCB's 8080/808		PAH 808/808		BOD, TSS, pH, TDS, Chloride		Gamma Spec.		Alpha Beta (Air)		PLM (Ambient)	
Foggy Producing Co.		KE 10/10/02		Foggy Producing Co.		3332		10/10/02		14:00		3529		S		S		S		AA-12 (0-1)		HCL		1		Y		HCL		HNO3		ICE		NONE		BTEX 8020/802		MTBE 8020/802		TPH 4101 8016 MOD		FAH 8270		RCRA Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Volatiles		TCIP Semi Volatiles		RCI		GC/MS Vol. 8240/8260/824		GC/MS Semi. Vol. 8270/828		PCB's 8080/808		PAH 808/808		BOD, TSS, pH, TDS, Chloride		Gamma Spec.		Alpha Beta (Air)		PLM (Ambient)	
Foggy Producing Co.		KE 10/10/02		Foggy Producing Co.		3332		10/10/02		14:00		353		S		S		S		AA-12 (1-1.5')		HCL		1		Y		HCL		HNO3		ICE		NONE		BTEX 8020/802		MTBE 8020/802		TPH 4101 8016 MOD		FAH 8270		RCRA Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Volatiles		TCIP Semi Volatiles		RCI		GC/MS Vol. 8240/8260/824		GC/MS Semi. Vol. 8270/828		PCB's 8080/808		PAH 808/808		BOD, TSS, pH, TDS, Chloride		Gamma Spec.		Alpha Beta (Air)		PLM (Ambient)	
Foggy Producing Co.		KE 10/10/02		Foggy Producing Co.		3332		10/10/02		14:00		354		S		S		S		AA-13 (0-1)		HCL		1		Y		HCL		HNO3		ICE		NONE		BTEX 8020/802		MTBE 8020/802		TPH 4101 8016 MOD		FAH 8270		RCRA Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Volatiles		TCIP Semi Volatiles		RCI		GC/MS Vol. 8240/8260/824		GC/MS Semi. Vol. 8270/828		PCB's 8080/808		PAH 808/808		BOD, TSS, pH, TDS, Chloride		Gamma Spec.		Alpha Beta (Air)		PLM (Ambient)	
Foggy Producing Co.		KE 10/10/02		Foggy Producing Co.		3332		10/10/02		14:00		355		S		S		S		AA-13 (1-1.5')		HCL		1		Y		HCL		HNO3		ICE		NONE		BTEX 8020/802		MTBE 8020/802		TPH 4101 8016 MOD		FAH 8270		RCRA Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Volatiles		TCIP Semi Volatiles		RCI		GC/MS Vol. 8240/8260/824		GC/MS Semi. Vol. 8270/828		PCB's 8080/808		PAH 808/808		BOD, TSS, pH, TDS, Chloride		Gamma Spec.		Alpha Beta (Air)		PLM (Ambient)	
Foggy Producing Co.		KE 10/10/02		Foggy Producing Co.		3332		10/10/02		14:00		356		S		S		S		AA-14 (0-1)		HCL		1		Y		HCL		HNO3		ICE		NONE		BTEX 8020/802		MTBE 8020/802		TPH 4101 8016 MOD		FAH 8270		RCRA Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Volatiles		TCIP Semi Volatiles		RCI		GC/MS Vol. 8240/8260/824		GC/MS Semi. Vol. 8270/828		PCB's 8080/808		PAH 808/808		BOD, TSS, pH, TDS, Chloride		Gamma Spec.		Alpha Beta (Air)		PLM (Ambient)	
Foggy Producing Co.		KE 10/10/02		Foggy Producing Co.		3332		10/10/02		14:00		357		S		S		S		AA-15 (0-1.0')		HCL		1		Y		HCL		HNO3		ICE		NONE		BTEX 8020/802		MTBE 8020/802		TPH 4101 8016 MOD		FAH 8270		RCRA Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Metals Ag As Ba Cd Cr Cu Pb Mn Hg Zn Ni Al Fe		TCIP Volatiles		TCIP Semi Volatiles		RCI		GC/MS Vol. 8240/8260/824		GC/MS Semi. Vol. 8270/828		PCB's 8080/808		PAH 808/808		BOD, TSS, pH, TDS, Chloride		Gamma Spec.		Alpha Beta (Air)		PLM (Ambient)	

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