



**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063 (650) 364-9600  
Walnut Creek, CA 94598 (510) 988-9600  
Sacramento, CA 95834 (916) 921-9600

FAX (650) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

**RECEIVED**  
2:09 pm, Apr 21, 2009  
Alameda County  
Environmental Health

Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Unocal 0746/Oakland Lab Proj. ID: 9802D78	Sampled: 02/19/98 Received: 02/19/98 Analyzed: see below Reported: 03/04/98
Attention: C. Galantine		

**LABORATORY ANALYSIS**

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9802D78-05 Sample Desc : <b>SOLID,US-1(Comp)</b>				
<b>Lead by ICP</b>	<b>mg/Kg</b>	<b>02/26/98</b>	<b>5.0</b>	<b>100</b>

RECEIVED  
APR 21 2009

GETTLER RYAN INC.  
GENERAL CONTRACTORS

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Mike Gregory  
Project Manager

Store # <u>250746</u>	Date: <u>3-4-98</u>
Unit # <u>0746</u>	Code: _____ Color <input type="checkbox"/>
Description: _____	





Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568 Attention: C. Galantine	Client Proj. ID: Unocal 0746/Oakland Sample Descript: UT-1-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9802D78-01	Sampled: 02/19/98 Received: 02/19/98 Extracted: 02/25/98 Analyzed: 03/02/98 Reported: 03/04/98
--	---	--

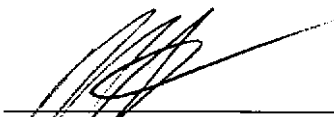
QC Batch Number: GC022598BTEXEXC  
Instrument ID: GCHP18

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
<b>TPPH as Gas</b>	<b>500</b>	<b>2400</b>
Methyl t-Butyl Ether	12	N.D.
Benzene	2.5	N.D.
Toluene	2.5	N.D.
<b>Ethyl Benzene</b>	<b>2.5</b>	<b>8.8</b>
<b>Xylenes (Total)</b>	<b>2.5</b>	<b>56</b>
Chromatogram Pattern:		
<b>Weathered Gas</b>		<b>C7-C12</b>
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	105
4-Bromofluorobenzene	60 140	Q

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
 \_\_\_\_\_  
 Mike Gregory  
 Project Manager





Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568 Attention: C. Galantine	Client Proj. ID: Unocal 0746/Oakland Sample Descript: UT-2-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9802D78-02	Sampled: 02/19/98 Received: 02/19/98 Extracted: 02/25/98 Analyzed: 03/02/98 Reported: 03/04/98
--	---	--


QC Batch Number: GC022598BTEXEXC  
Instrument ID: GCHP18

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
<b>TPPH as Gas</b>	<b>500</b>	<b>4300</b>
Methyl t-Butyl Ether	12	N.D.
Benzene	2.5	N.D.
<b>Toluene</b>	<b>2.5</b>	<b>6.3</b>
<b>Ethyl Benzene</b>	<b>2.5</b>	<b>58</b>
<b>Xylenes (Total)</b>	<b>2.5</b>	<b>410</b>
Chromatogram Pattern: <b>Weathered Gas</b>		<b>C7-C12</b>
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	103
4-Bromofluorobenzene	60 140	Q

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
\_\_\_\_\_  
Mike Gregory  
Project Manager





Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568 Attention: C. Galantine	Client Proj. ID: Unocal 0746/Oakland Sample Descript: UT-3-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9802D78-03	Sampled: 02/19/98 Received: 02/19/98 Extracted: 02/25/98 Analyzed: 03/02/98 Reported: 03/04/98
--	---	--

QC Batch Number: GC022598BTEXEXC  
Instrument ID: GCHP01

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2.5	23
Methyl t-Butyl Ether	0.062	2.9
Benzene	0.012	0.039
Toluene	0.012	0.077
Ethyl Benzene	0.012	0.22
Xylenes (Total)	0.012	0.051
Chromatogram Pattern:		GAS
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	97
4-Bromofluorobenzene	60 140	33 Q

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**



Mike Gregory  
Project Manager





Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568 Attention: C. Galantine	Client Proj. ID: Unocal 0746/Oakland Sample Descript: UT-4-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9802D78-04	Sampled: 02/19/98 Received: 02/19/98 Extracted: 02/25/98 Analyzed: 03/02/98 Reported: 03/04/98
--	---	--

QC Batch Number: GC022598BTEXEXC  
Instrument ID: GCHP01

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	88
4-Bromofluorobenzene	60 140	76

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Mike Gregory  
Project Manager





Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568 Attention: C. Galantine	Client Proj. ID: Unocal 0746/Oakland Sample Descript: US-1(Comp) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9802D78-05	Sampled: 02/19/98 Received: 02/19/98 Extracted: 02/25/98 Analyzed: 02/27/98 Reported: 03/04/98
--	---	--


QC Batch Number: GC022598BTEXEXC  
Instrument ID: GCHP22

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	4.0
Methyl t-Butyl Ether	0.025	0.31
Benzene	0.0050	N.D.
Toluene	0.0050	0.016
Ethyl Benzene	0.0050	0.0090
Xylenes (Total)	0.0050	0.13
Chromatogram Pattern:		GAS
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Mike Gregory  
Project Manager





**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(650) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (650) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Gettler Ryan/Geostrategies  
6747 Sierra Court Suite J  
Dublin, CA 94568  
Attention: C. Galantine

Client Proj. ID: Unocal 0746/Oakland

Received: 02/19/98

Lab Proj. ID: 9802D78

Reported: 03/04/98

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 16 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Q - Surrogate diluted out.

Low #Q - Low surrogate due to matrix interference.

**SEQUOIA ANALYTICAL**



---

Mike Gregory  
Project Manager





Gettler Ryan/Geostrategies  
6747 Sierra Court, Ste J  
Dublin, CA 94568  
Attention: C. Galantine

Client Project ID: Unocal 0746/Oakland  
Matrix: Solid

Work Order #: 9802D78 -01-05

Reported: Mar 6, 1998

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
<b>QC Batch#:</b>	GC022598BTEXEXC	GC022598BTEXEXC	GC022598BTEXEXC	GC022598BTEXEXC	GC022598BTEXEXC
<b>Analy. Method:</b>	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
<b>Prep. Method:</b>	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

<b>Analyst:</b>	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
<b>MS/MSD #:</b>	9802E8502	9802E8502	9802E8502	9802E8502	9802E8502
<b>Sample Conc.:</b>	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Prepared Date:</b>	2/25/98	2/25/98	2/25/98	2/25/98	2/25/98
<b>Analyzed Date:</b>	2/25/98	2/25/98	2/25/98	2/25/98	2/25/98
<b>Instrument I.D.#:</b>	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
<b>Conc. Spiked:</b>	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
<b>Result:</b>	0.20	0.20	0.20	0.60	1.2
<b>MS % Recovery:</b>	100	100	100	100	100
<b>Dup. Result:</b>	0.20	0.20	0.20	0.60	1.1
<b>MSD % Recov.:</b>	100	100	100	100	92
<b>RPD:</b>	0.0	0.0	0.0	0.0	8.7
<b>RPD Limit:</b>	0-25	0-25	0-25	0-25	0-25

<b>LCS #:</b>	BLK022598	BLK022598	BLK022598	BLK022598	BLK022598
<b>Prepared Date:</b>	2/25/98	2/25/98	2/25/98	2/25/98	2/25/98
<b>Analyzed Date:</b>	2/26/98	2/26/98	2/26/98	2/26/98	2/26/98
<b>Instrument I.D.#:</b>	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
<b>Conc. Spiked:</b>	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
<b>LCS Result:</b>	0.22	0.21	0.21	0.64	1.2
<b>LCS % Recov.:</b>	110	105	105	107	100

<b>MS/MSD</b>	60-140	60-140	60-140	60-140	60-140
<b>LCS</b>	70-130	70-130	70-130	70-130	70-130
<b>Control Limits</b>					

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

**SEQUOIA ANALYTICAL**

Mike Gregory  
Project Manager

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9802D78.GET <1>







Gettler Ryan/Geostrategies  
6747 Sierra Court, Ste J  
Dublin, CA 94568  
Attention: C. Galantine

Client Project ID: Unocal 0746/Oakland  
Matrix: Solid

Work Order #: 9802D78-05

Reported: Mar 6, 1998

**QUALITY CONTROL DATA REPORT**

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0226986010MDE	ME0226986010MDE	ME0226986010MDE	ME0226986010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	T. Sears	T. Sears	T. Sears	T. Sears
MS/MSD #:	980267701	980267701	980267701	980267701
Sample Conc.:	N.D.	N.D.	82	130
Prepared Date:	2/26/98	2/26/98	2/26/98	2/26/98
Analyzed Date:	2/26/98	2/26/98	2/26/98	2/26/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
Result:	44	45	140	170
MS % Recovery:	88	90	116	80
Dup. Result:	44	47	130	160
MSD % Recov.:	88	94	96	60
RPD:	0.0	4.3	7.4	6.1
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	BLK022698	BLK022698	BLK022698	BLK022698
Prepared Date:	2/26/98	2/26/98	2/26/98	2/26/98
Analyzed Date:	2/26/98	2/26/98	2/26/98	2/26/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	53	51	53	52
LCS % Recov.:	106	102	106	104

MS/MSD	80-120	80-120	80-120	80-120
LCS	80-120	80-120	80-120	80-120
Control Limits				

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

**SEQUOIA ANALYTICAL**

Mike Gregory  
Project Manager

\*\* MS= Matrix Spike, MSD=MS Duplicate, RPD= Relative % Difference

9802D78.GET <2>



Consultant Company: <u>Gettler-Ryan</u>		Project Name: <u>Unocal # 0746</u>	
Address: <u>6747 Sierra Ct Suite J 140064.02</u>		UNOCAL Project Manager: <u>Tina Berry</u>	
City: <u>Dublin</u>	State: <u>CA</u>	Zip Code: <u>94568</u>	AFE #:
Telephone: <u>(510) 551-7555</u>		FAX #: <u>(510) 551-7888</u>	
Report To: <u>C Galantine</u>		Sampler: <u>C Galantine</u>	
Turnaround <input checked="" type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days		Site #, City, State: <u>#0746, 3143 Broadway Oakland</u>	
Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Drinking Water  Waste Water  Other  
 Detect.  Eval.  Remed.  Demol.  Closure

Analyses Requested: 9802078 19 2

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments				
1. <u>WT-1-4</u>	<u>2/19/98</u>	<u>soil</u>	<u>1</u>	<u>tube</u>	<u>1</u>	<u>X</u>														
2. <u>WT-2-4</u>	↓	↓	<u>1</u>	↓	<u>2</u>	<u>X</u>														
3. <u>WT-3-4</u>	↓	↓	<u>1</u>	↓	<u>3</u>	<u>X</u>														
4. <u>WT-4-4</u>	↓	↓	<u>1</u>	↓	<u>4</u>	<u>X</u>														
5.																				
6. <u>US-1 (Comp)</u>	↓	↓	<u>4</u>	↓	<u>5</u>	<u>X</u>	<u>X</u>													
7.																				
8.																				
9.																				
10.																				

Relinquished By: <u>[Signature]</u>	Date: <u>2/19/98</u>	Time: <u>12:55</u>	Received By: <u>[Signature]</u>	Date: <u>2/19/98</u>	Time: <u>12:55</u>
Relinquished By: <u>[Signature]</u>	Date: <u>2/19</u>	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>[Signature]</u>	Date: <u>2/19/98</u>	Time: <u>14:23</u>

Were Samples Received in Good Condition?  Yes  No     
 Samples on Ice?  Yes  No     
 Method of Shipment \_\_\_\_\_     
 Page \_\_\_ of \_\_\_

To be completed upon receipt of report:  
 •1) Were the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed? \_\_\_\_\_  
 2) Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client  
 Yellow - Laboratory  
 White - Laboratory

- 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
- 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
- 819 Sinker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

Consultant Company: **Gettler-Ryan**  
 Address: 6747 Sierra Ct Suite T, 14066402  
 City: Dublin, State: CA, Zip Code: 94568  
 Telephone: (510) 557-7555, FAX #: (510) 551-7888  
 Report To: **Colgate**  
 Project Name: **Analyst # 0746**  
 UNOCAL Project Manager: **Tina Berry**  
 AFE #: \_\_\_\_\_  
 Site #, City, State: **#0746, 3942 Broadway, Oakland**  
 OC Data:  Level D (Standard)  Level C  Level B  Level A

**Turnaround**  10 Work Days  5 Work Days  3 Work Days  
**Time:**  2 Work Days  1 Work Day  2-8 Hours  
**CODE:**  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  
 Drinking Water  Waste Water  Other

Client Sample I.D.	Date/Time Sampled	Matrix	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1. UT-1-4	2/19/98	Soil	1	Tube	X	
2. UT-2-4			1		X	
3. UT-3-4			1		X	
4. UT-4-4			1		X	
6. US-1 (Comp)			4		X	

Relinquished By: <i>[Signature]</i>	Date: 2/19/98	Time: 12:55	Received By: <i>[Signature]</i>	Date: 2/19/98	Time: 12:55
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition?  Yes  No  
 Samples on Ice?  Yes  No  
 Method of Shipment: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_  
 To be completed upon receipt of report:  
 1) Were the analyses requested on the Chain of Custody reported?  Yes  No. If no, what analyses are still needed?  
 2) Was the report issued within the requested turnaround time?  Yes  No. If no, what was the turnaround time?

White - Laboratory  
 Yellow - Laboratory  
 Pink - Client