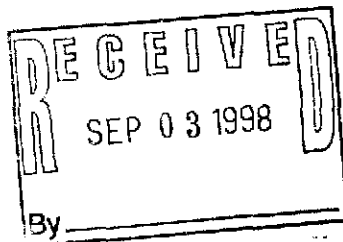


CAMBRIA



August 31, 1998

ST10459

Mr. Tom Peacock
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

Re: **Ground Water Monitoring Report - Third Quarter 1998**
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
WIC #204-5508-1701



Dear Mr. Peacock:

This Quarterly Monitoring Report describes the recently completed activities associated with ground water monitoring and sampling at the referenced site (Plates 1 and 2). This report was prepared to meet quarterly reporting guidelines issued by the Regional Water Quality Control Board, San Francisco Bay Region and the Alameda County Health Care Services Agency.

Quarterly Monitoring & Sampling Summary

Ground water monitoring and well sampling for the third quarter of 1998 are summarized below:

- Blaine Tech Services, Inc. (Blaine) of San Jose, California measured water levels and collected ground water samples from Wells MW-1, MW-2, V-1, and V-2 on July 14, 1998. Ground water samples were transported to Sequoia Analytical of Redwood City, California for laboratory analysis.
- Cambria Environmental Technology, Inc. (Cambria) evaluated water-level measurement data and prepared a ground water contour/chemical concentration map (Plate 2). Ground water flow direction varies across the site, but is predominantly southeasterly at an approximate hydraulic gradient of 0.02.
- Wells MW-1 and MW-2 were ND for TPPH, BTEX, and MTBE. Wells V-1 and V-2 contained 160 ppb and 43,000 ppb TPPH, and 1.9 ppb and 4,700 ppb benzene, respectively. Well V-1 contained 6.1 ppb MTBE. MTBE was not detected in Well V-2.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

**Cambria
Environmental
Technology, Inc.**

270 Perkins Street
P.O. Box 259
Sonoma, CA 95476
Tel (707)935-4850
Fax (707)935-6649

C A M B R I A

Quarterly Sampling

Monitoring Wells MW-1, MW-2, V-1, and V-2 were sampled and analyzed for Total Purgeable Petroleum Hydrocarbons quantitated as gasoline (TPPH) according to EPA Method 8015 (Modified), and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl-tertiary-butyl-ether (MTBE) according to EPA Method 8020. Additionally, a duplicate sample was prepared and analyzed for quality control purposes.

Field monitoring and chemical analytical data have been included in Table 1. Blaine's ground water monitoring report is presented in Appendix A.

Conclusions

Ground water analytical results for this quarter indicate that petroleum hydrocarbon and MTBE concentrations are within the historical norm for this site.

Recommendations

We recommend that quarterly monitoring, sampling, and reporting continue on the established schedule for this site.

If you have any questions regarding the contents of this document, please call.

Sincerely,
Cambria Environmental Technology, Inc.



Mike Prinz
Project Engineer



Diane M. Lundquist, P.E.
Principal Engineer
C46725



C A M B R I A

Attachments:

Table 1. Well Concentrations

Plate 1. Vicinity Map

Plate 2. Ground Water Contour Map/Chemical Concentration Map

Appendix A

Blaine Tech Services Inc. - Ground Water Monitoring Report



cc: Ms. Karen Petryna, Equiva Services LLC

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
WIC #204-5508-1701

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

MW-1 (B-11)		Top casing elevation (ft): 23.53								
02-Aug-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	
05-Aug-96	8.76	14.77	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
17-Oct-96	9.88	13.65	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
08-Jan-97	6.82	16.71	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Apr-97	7.89	15.64	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Jul-97	8.71	14.82	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
24-Oct-97	9.26	14.27	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
09-Jan-98	7.94	15.59	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Apr-98	7.21	16.32	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
14-Jul-98	7.78	15.75	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

MW-1 (DUP)										
05-Aug-96	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

MW-2 (B-12)		Top casing elevation (ft): 22.47								
17-Jul-96	NA	NA	NA	<50	<0.50	0.69	<0.50	<0.50	<2.5	Water sample from Boring
05-Aug-96	8.35	14.12	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
17-Oct-96	9.32	13.15	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
08-Jan-97	6.80	15.67	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
07-Apr-97	7.81	14.66	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Jul-97	8.27	14.20	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
24-Oct-97	9.12	13.35	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
WIC #204-5508-1701

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
09-Jan-98	7.41	15.06	0.00	<50	<0.50	<0.50	<0.50	<0.50	6.3	
02-Apr-98	6.59	15.88	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
14-Jul-98	7.49	14.98	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
MW-2 (DUP) Top casing elevation (ft): 22.47										
17-Oct-96	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
08-Jan-97	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
B-10 Top casing elevation (ft): NA										
17-Jul-96	NA	NA	NA	20000	400	<100	<100	870	<500	Water sample from Boring
B-13 Top casing elevation (ft): NA										
17-Jul-96	NA	NA	NA	290000	34000	21000	9900	47000	<2500	Water sample from Boring
V-1 Top casing elevation (ft): 23.26										
02-Aug-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	
05-Aug-96	8.58	14.68	0.00	NA	NA	NA	NA	NA	NA	
17-Oct-96	10.02	13.24	0.00	NA	NA	NA	NA	NA	NA	
16-Jan-97	5.55	17.71	0.00	9500	1200	250	280	880	<50	
07-Apr-97	7.40	15.86	0.00	2200	42	<5.0	130	15	<25	
02-Jul-97	8.94	14.32	0.00	2600	340	5.8	49	12	74	MTBE by 8260: <4.0 ppb
24-Oct-97	9.43	13.83	0.00	57000	5200	2300	3600	16000	1900	MTBE by 8260: <200 ppb
09-Jan-98	6.81	16.45	0.00	23000	2400	1700	1300	2300	310	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
WIC #204-5508-1701

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

02-Apr-98	4.58	18.68	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
14-Jul-98	7.51	15.75	0.00	160	1.9	<0.50	4.2	<0.50	6.1	

V-1 (DUP)										
09-Jan-98	NA	NA	NA	24000	2500	1800	1400	2400	450	
02-Apr-98	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

V-2		Top casing elevation (ft): 22.80								
02-Aug-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	
05-Aug-96	7.94	14.86	0.00	NA	NA	NA	NA	NA	NA	
17-Oct-96	9.30	13.50	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	5.82	16.98	0.00	69000	4800	2800	2700	13000	750	
07-Apr-97	7.10	15.70	0.00	90000	4400	1900	3300	14000	<500	
02-Jul-97	8.35	14.45	0.00	82000	5500	2700	3500	16000	530	MTBE by 8260: <100 ppb
24-Oct-97	10.03	12.77	0.00	7300	1100	97	230	180	91	MTBE by 8260: <12 ppb
09-Jan-98	6.94	15.86	0.00	40000	4100	1500	2500	9000	280	
02-Apr-98	5.35	17.45	0.00	62000	6800	2400	3400	14000	<250	
14-Jul-98	6.48	16.32	0.00	43000	4700	1100	2500	6600	<250	

V-2 (DUP)										
07-Apr-97	NA	NA	NA	77000	4400	2000	3200	14000	<250	
02-Jul-97	NA	NA	NA	85000	5600	2800	3600	17000	520	MTBE by 8260: <100 ppb

TABLE 1

**WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
WIC #204-5508-1701**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
24-Oct-97	NA	NA	NA	12000	1700	340	650	630	120	MTBE by 8260: <20 ppb
14-Jul-98	NA	NA	NA	48000	5100	1300	2600	8100	<250	

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by EPA Method 8015 modified

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl-ether by EPA Method 8020

NA = Not analyzed or not available

<x = Not detected at detection limit of x

EXPLANATION

- Exploratory Boring
- ⊕ Soil Vapor Extraction Well
- Ground Water Monitoring Well
- Ground water elevation contours in feet referenced to mean sea level (MSL). Arrows indicate approximate ground water flow direction.
- 15.75 Ground water elevation in feet above MSL
- (1.9) Benzene concentration in ppb
ND = Not Detected
- (6.1) MTBE concentration in ppb
ND = Not Detected
- Notes: Monitoring performed 14-Jul-98.
Approximate hydraulic gradient = 0.02

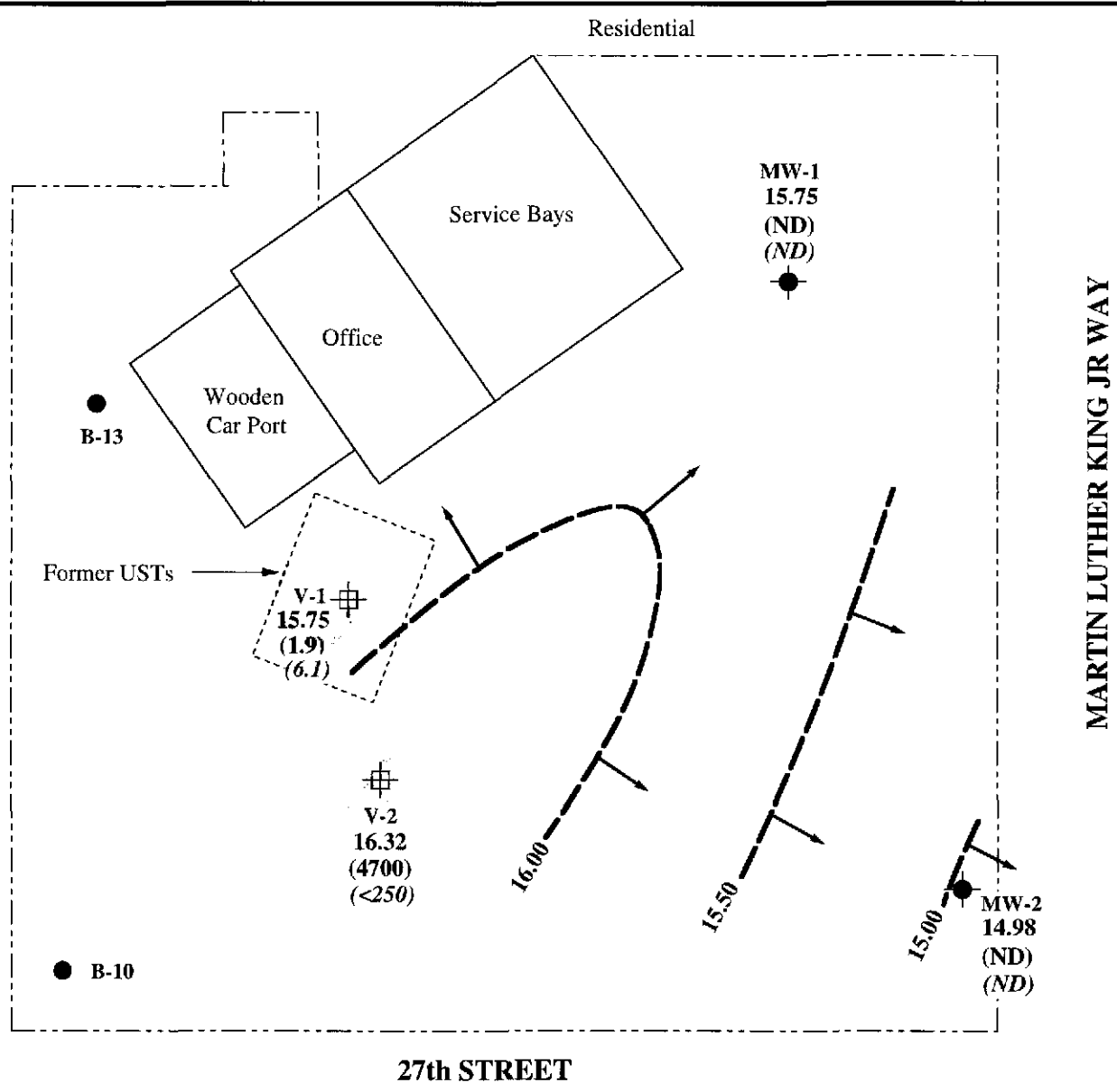
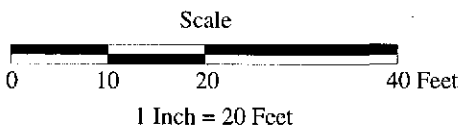
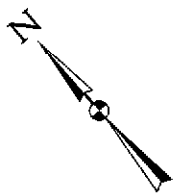


PLATE **2** GROUND WATER CONTOUR/CHEMICAL CONCENTRATION MAP
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

CAMBRIA
240-0781

Drawn By: MDP

Date: 25-August-98

Approved By: *[Signature]*

Date: 5-28-98

Appendix A

**Blaine Tech Services, Inc.
Ground Water Monitoring Report**

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

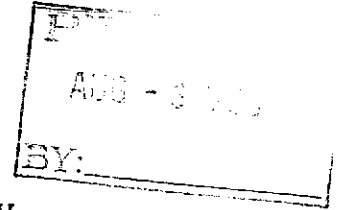


August 4, 1998

Equilon Enterprises, L.L.C.
108 Cutting Blvd.
Richmond, CA 94804

Attn: Karen Petryna

Shell WIC #204-5508-1701
2703 Martin Luther King Junior Way
Oakland, California




3rd Quarter 1998

Groundwater Monitoring Report 980714-Y-3

Blaine Tech Services, Inc. performs environmental monitoring and documentation as an independent third party. Copies of our Monitoring Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 573-0555 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Cambria Environmental Technology, Inc.
P.O. Box 259
Sonoma, CA 95476-0259
Attn: Joe Neely

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	07/14/98	TOC	--	NONE	--	--	7.78	20.23
MW-2	07/14/98	TOC	--	NONE	--	--	7.49	20.07
V-1	07/14/98	TOC	--	NONE	--	--	7.51	13.06
V-2*	07/14/98	TOC	ODOR	NONE	--	--	6.48	13.21

* Sample DUP was a duplicate sample taken from well V-2.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 98071443

Date: _____
 Page 1 of 1

Site Address: 2703 Martin Luther King Junior Way,
 Oakland, CA

WIC#: 254-5508-1701

Shell Engineer: Alex Perez Phone No.: (510) 675-6168
 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.
 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie Phone No.: (408) 573-0555
 Fax #: 573-7771

Comments:

Sampled by:

Printed Name: BROOKS TAYLOR

Analysis Required 9807995

LAB: SEP

	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 <u>IN TALS</u>	Asbestos	Container Size	Preparation Used	Composite Y/N
MW1				X		X				
MW2				X		X				
V1				X		X				
V2				X		X				
DUP				X		X				

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW1	7/14			X		3		
MW2	X			X		3		
V1				X		3		
V2				X		3		
DUP				X		3		

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>BROOKS TAYLOR</u>	Date: <u>7/15/98</u> Time: <u>11:25</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>Steve Ten</u>	Date: <u>7/15/98</u> Time: <u>11:25</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: _____	Date: <u>7/15/98</u> Time: _____	Received (signature): <u>[Signature]</u>	Printed Name: _____	Date: _____ Time: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____ Time: _____	Received (signature): <u>[Signature]</u>	Printed Name: <u>Jose Haro</u>	Date: _____ Time: <u>7:15:12</u>

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 2703 Martin Luther King

Enclosed are the results from samples received at Sequoia Analytical on July 15, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9807895 -01	LIQUID, MW1	07/14/98	Purgeable TPH/BTEX/MTBE
9807895 -02	LIQUID, MW2	07/14/98	Purgeable TPH/BTEX/MTBE
9807895 -03	LIQUID, V1	07/14/98	Purgeable TPH/BTEX/MTBE
9807895 -04	LIQUID, V2	07/14/98	Purgeable TPH/BTEX/MTBE
9807895 -05	LIQUID, DUP	07/14/98	Purgeable TPH/BTEX/MTBE

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL


Peggy Fenner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 2703 Martin Luther King Sample Descript: MW1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9807895-01	Sampled: 07/14/98 Received: 07/15/98 Analyzed: 07/26/98 Reported: 07/29/98
Attention: Fran Thie		

QC Batch Number: GC072698BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	70

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

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 2703 Martin Luther King Sample Descript: MW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9807895-02	Sampled: 07/14/98 Received: 07/15/98 Analyzed: 07/26/98 Reported: 07/29/98
--	---	---

QC Batch Number: GC072698BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	84

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell 2703 Martin Luther King
Sample Descript: V1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9807895-03

Sampled: 07/14/98
Received: 07/15/98
Analyzed: 07/27/98
Reported: 07/29/98

QC Batch Number: GC072798BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	160
Methyl t-Butyl Ether	2.5	6.1
Benzene	0.50	1.9
Toluene	0.50	N.D.
Ethyl Benzene	0.50	4.2
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	104

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 2703 Martin Luther King Sample Descript: V2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9807895-04	Sampled: 07/14/98 Received: 07/15/98 Analyzed: 07/27/98 Reported: 07/29/98
--	--	---

QC Batch Number: GC072798BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	43000
Methyl t-Butyl Ether	250	N.D.
Benzene	50	4700
Toluene	50	1100
Ethyl Benzene	50	2500
Xylenes (Total)	50	6600
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	111

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 2703 Martin Luther King
Sample Descript: DUP
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9807895-05

Sampled: 07/14/98
Received: 07/15/98
Analyzed: 07/27/98
Reported: 07/29/98

QC Batch Number: GC072798BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	48000
Methyl t-Butyl Ether	250	N.D.
Benzene	50	5100
Toluene	50	1300
Ethyl Benzene	50	2600
Xylenes (Total)	50	8100
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 2703 Martin Luther King

QC Sample Group: 9807895-03-05

Reported: Jul 29, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015
Analyst:

ANALYTE Gasoline

QC Batch #: GC072798BTEX17A

Sample No.: GW9807899-03

Date Prepared: 7/27/98

Date Analyzed: 7/27/98

Instrument I.D.#: GCHP27

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 270

% Recovery: 108

Matrix

pike Duplicate, ug/L: 250

% Recovery: 100.0

Relative % Difference: 7.7

RPD Control Limits: 0-25

LCS Batch#: GWBLK0727998AS

Date Prepared: 7/27/98

Date Analyzed: 7/27/98

Instrument I.D.#: GCHP27

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 250

LCS % Recovery: 100.0

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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.





Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 2703 Martin Luther King

QC Sample Group: 9807895-01-02

Reported: Jul 29, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst:

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
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QC Batch #: GC072698BTEX21A

Sample No.: GW9807897-06

Date Prepared:	7/26/98	7/26/98	7/26/98	7/26/98
Date Analyzed:	7/26/98	7/26/98	7/26/98	7/26/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	10.0	10.0	31
% Recovery:	110	100.0	100.0	103
Matrix pike Duplicate, ug/L:	11	10.0	10.0	30
% Recovery:	110	100.0	100.0	100.0
Relative % Difference:	0.0	0.0	0.0	3.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GWBLK072698ABS

Date Prepared:	7/26/98	7/26/98	7/26/98	7/26/98
Date Analyzed:	7/26/98	7/26/98	7/26/98	7/26/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10.0	9.2	9.2	27
LCS % Recovery:	100.0	92	92	90

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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.

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Peggy Renner
Project Manager





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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Shell 2703 Martin Luther King

Received: 07/15/98

Lab Proj. ID: 9807895

Reported: 07/29/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 9 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager

