STID 1107 505

CAMBRIA

ENVIRONMENTAL PROTECTION
99 JAN 22 PM 4:55

January 21, 1999

Pamela Evans
Alameda County Health Care Services Agency
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 1998 Monitoring Report**
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
WIC #204-6001-0109
Cambria Project #24-314-498

Dear Ms. Evans:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report to satisfy the reporting requirements of 23 CCR 2652d.

FOURTH QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all monitoring wells. Cambria calculated ground water elevations (Table 1), compiled the analytical data (Tables 2 and 3), and prepared a ground water elevation contour map (Figure 1). The Blaine report is included as Attachment A.

ANTICIPATED FUTURE 1998 ACTIVITIES

Ground Water Monitoring: The next sampling event is scheduled for fourth quarter 1998. At that time, Blaine will gauge and sample the site wells. Cambria will tabulate the data and prepare a monitoring report.

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

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

for

Daryk Ataide
Project Environmental Scientist

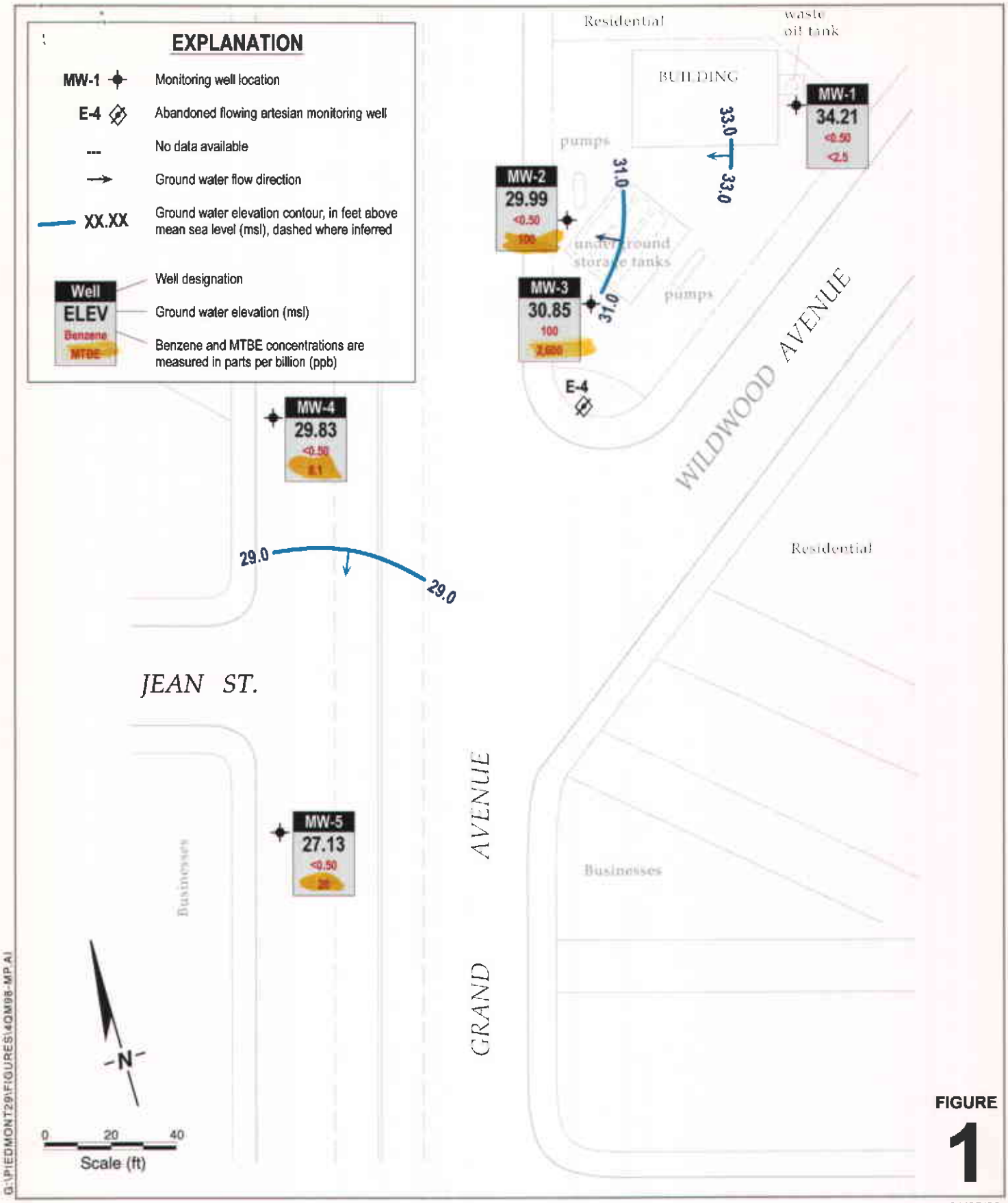
REGISTERED PROFESSIONAL ENGINEER
DIANE M. LUNDQUIST
NO. C46725
CIVIL
STATE OF CALIFORNIA

Diane M. Lundquist, P.E.
Principal Engineer

Attachment: A - Blaine Ground Water Monitoring Report

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, CA 90749-6249

G:\Piedmont 29\QM\4Q98.WPD



G:\PIEDMONT29\FIGURES\4QM98-MP.AI

FIGURE

1

01/05/99

Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
WIC #204-6001-0109

CAMBRIA

Ground Water Elevation Contour Map

October 1, 1998

4810496

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981001-R1

Date: 10-1-98
Page 1 of 1

Site Address: 29 Wildwood Ave., Piedmont, CA

WIC#: 204-6001-0109

Shell Engineer: R. Jeff Granberry — 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: Chris LaPlante

Printed Name: Chris LaPlante

LAB: Sequoia

CHECK ONE (1) BOX ONLY		CT/DT	TURN AROUND TIME	
G.W. Monitoring	[X]	4461	24 hours	[ ]
Site Investigation	[ ]	4441	48 hours	[ ]
Soil Classify/Disposal	[ ]	4442	15 days	[X] (Normal)
Water Classify/Disposal	[ ]	4443	Other	[ ] ____
Soil/Air Rem. or Sys. O & M	[ ]	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.	
Water Rem. or Sys. O & M	[ ]	4453		
Other	[ ]			

UST AGENCY: ____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	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 MTBE	EPA 8010		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
mw1	10/1/98			W		6						X	X						01	
mw2												X	X						02	
mw3												X	X						03	
mw4												X	X						04	
mw5												X	X						05	
DUP												X	X						06	
EB	W			W								X	X						07	

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
Chris LaPlante	Chris LaPlante	10/2/98	1130		JOHN FRICK	10/2/98	1630
	JOHN FRICK	10/2/98					
					MIKE YANG	10/2/98	13:40

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

Shell Oil Chain of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

laine Tech Services
680 Rogers Avenue
an Jose, CA 95112
ttention: Fran Thie

roject: Shell 29 Wildwood Ave.

Enclosed are the results from samples received at Sequoia Analytical on October 2, 1998.
he requested analyses are listed below:

AMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
810246 -01	LIQUID, MW-1	10/01/98	Halogen. Volatiles, Water
810246 -01	LIQUID, MW-1	10/01/98	Purgeable TPH/BTEX/MTBE
810246 -02	LIQUID, MW-2	10/01/98	Halogen. Volatiles, Water
810246 -02	LIQUID, MW-2	10/01/98	Purgeable TPH/BTEX/MTBE
810246 -03	LIQUID, MW-3	10/01/98	Halogen. Volatiles, Water
810246 -03	LIQUID, MW-3	10/01/98	Purgeable TPH/BTEX/MTBE
810246 -04	LIQUID, MW-4	10/01/98	Halogen. Volatiles, Water
810246 -04	LIQUID, MW-4	10/01/98	Purgeable TPH/BTEX/MTBE
810246 -05	LIQUID, MW-5	10/01/98	Halogen. Volatiles, Water
810246 -05	LIQUID, MW-5	10/01/98	Purgeable TPH/BTEX/MTBE
810246 -06	LIQUID, DUP	10/01/98	Halogen. Volatiles, Water
810246 -06	LIQUID, DUP	10/01/98	Purgeable TPH/BTEX/MTBE
810246 -07	LIQUID, EB	10/01/98	Halogen. Volatiles, Water
810246 -07	LIQUID, EB	10/01/98	Purgeable TPH/BTEX/MTBE

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

ery truly yours,

EQUOIA ANALYTICAL

eggy Penner
roject Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-1	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-01	Reported: 10/27/98

QC Batch Number: GC100998OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	94

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Renner
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-1	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-01	Reported: 10/27/98

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	100

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

EQUOIA ANALYTICAL - ELAP #1210

eggy Penner
roject Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-02	Reported: 10/27/98

QC Batch Number: GC100998OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-02	Reported: 10/27/98

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**	**100**
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	98

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

EQUOIA ANALYTICAL - ELAP #1210

eggy Pennel
roject Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-3	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 10/12/98
Attention: Fran Thie	Lab Number: 9810246-03	Reported: 10/27/98

QC Batch Number: GC101298OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	100

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, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-3	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-03	Reported: 10/27/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**1400**
Methyl t-Butyl Ether	**25**	**2300**
Benzene	**5.0**	**84**
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

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

EQUOIA ANALYTICAL - ELAP #1210

eggy Penner
roject Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-04	Reported: 10/27/98

QC Batch Number: GC100998OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	**0.50**	**2.5**
trans-1,2-Dichloroethene	**0.50**	**1.5**
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**3.2**
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**1.1**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	104

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-04	Reported: 10/27/98

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**	**8.1**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.74**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

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

EQUOIA ANALYTICAL - ELAP #1210

eggy Penner
roject Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-5	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 10/12/98
Attention: Fran Thie	Lab Number: 9810246-05	Reported: 10/27/98

QC Batch Number: GC101298OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	2.5	N.D.
Bromoform	2.5	N.D.
Bromomethane	5.0	N.D.
Carbon Tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	**2.5**	**9.0**
trans-1,2-Dichloroethene	**2.5**	**5.1**
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	**2.5**	**95**
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	**2.5**	**12**
Trichlorofluoromethane	2.5	N.D.
Vinyl chloride	5.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	119

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-5	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-05	Reported: 10/27/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**57**
Methyl t-Butyl Ether	**2.5**	**20**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.62**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

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

SEQUOIA ANALYTICAL - ELAP #1210

eggy Penner
roject Manager

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Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: DUP	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 10/12/98
Attention: Fran Thie	Lab Number: 9810246-06	Reported: 10/27/98

QC Batch Number: GC101298OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	119

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: DUP	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-06	Reported: 10/27/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**2100**
Methyl t-Butyl Ether	**50**	**2600**
Benzene	**10**	**100**
Toluene	10	N.D.
Ethyl Benzene	10	N.D.
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

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

EQUOIA ANALYTICAL - ELAP #1210

eggy Penner
roject Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: EB	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-07	Reported: 10/27/98

QC Batch Number: GC100998OVOA24A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	92

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Renner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 29 Wildwood Ave.	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: EB	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thie	Lab Number: 9810246-07	Reported: 10/27/98

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**	**1.3**
Toluene	**0.50**	**11**
Ethyl Benzene	**0.50**	**0.98**
Xylenes (Total)	**0.50**	**6.5**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

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

SEQUOIA ANALYTICAL - ELAP #1210

'eggy Penner
'roject Manager

Sequoia Analytical

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

Client Project ID: Shell 29 Wildwood Ave.
Matrix: Liquid
Work Order #: 9810246 -01-07

Reported: Nov 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	8100137	8100137	8100137	8100137
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M
Analyst:	-	-	-	-
MS/MSD #:	P810114-01	P810114-01	P810114-01	P810114-01
Sample Conc.:	N.D.	N.D.	N.D.	0.522
Prepared Date:	10/9/98	10/9/98	10/9/98	10/9/98
Analyzed Date:	10/9/98	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
Result:	101	97.9	96.6	290
MS % Recovery:	101	97.9	96.6	96.7
Dup. Result:	99.8	96.3	95	286
MSD % Recov.:	99.8	96.3	95	95.3
RPD:	1.2	1.65	1.67	1.39
RPD Limit:	0-5	0-6	0-4	0-5

LCS #:	LCS100998	LCS100998	LCS100998	LCS100998
Prepared Date:	10/9/98	10/9/98	10/9/98	10/9/98
Analyzed Date:	10/9/98	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
LCS Result:	97.4	93.8	92.5	279
LCS % Recov.:	97.4	93.8	92.5	93

Control Limits				
MS/MSD	82-119	80-117	66-125	73-119
LCS	84-116	81-117	79-115	80-114

SEQUOIA ANALYTICAL
Elap #2245

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.

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

Sequoia Analytical

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

Client Project ID: Shell 29 Wildwood Ave.

QC Sample Group: 9810246-01-02, -04, -07

Reported: Oct 27, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/8020, 601/602
Analyst: R. Scroggin

ANALYTE	1,1-DCE	TCE	Chlorobenzene
QC Batch #:	GC1009980VOA24A		
Sample No.:	9810460-01		
Date Prepared:	10/8/98	10/8/98	10/8/98
Date Analyzed:	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Sample Conc., ug/L:	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	25	25	25
Matrix Spike, ug/L:	22	20	23
% Recovery:	88	80	92
Matrix pike Duplicate, ug/L:	22	20	25
% Recovery:	88	80	100.0
elative % Difference:	0.0	0.0	8.3
RPD Control Limits:	0-50	0-50	0-50

LCS Batch#: VWLCS100998A

Date Prepared:	10/9/98	10/9/98	10/9/98
Date Analyzed:	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Conc. Spiked, ug/L:	25	25	25
Recovery, ug/L:	19	19	20
LCS % Recovery:	76	76	80

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	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.

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

Client Project ID: Shell 29 Wildwood Ave.

QC Sample Group: 9810246-03, -05-06

Reported: Oct 27, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/8020, 601/602
Analyst: L. Kim

ANALYTE	1,1-DCE	TCE	Chlorobenzene
QC Batch #:	GC1012980VOA24A		
Sample No.:	9810460-01		
Date Prepared:	10/8/98	10/8/98	10/8/98
Date Analyzed:	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Sample Conc., ug/L:	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	25	25	25
Matrix Spike, ug/L:	22	20	23
% Recovery:	88	80	92
Matrix pike Duplicate, ug/L:	22	20	25
% Recovery:	88	80	100.0
elative % Difference:	0.0	0.0	8.3
RPD Control Limits:	0-50	0-50	0-50

LCS Batch#:	VWLCS101298A		
Date Prepared:	10/12/98	10/12/98	10/12/98
Date Analyzed:	10/12/98	10/12/98	10/12/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Conc. Spiked, ug/L:	25	25	25
Recovery, ug/L:	21	19	22
LCS % Recovery:	84	76	88

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140
LCS	65-135	70-130	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.

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 29 Wildwood Ave. Lab Proj. ID: 9810246	Received: 10/02/98 Reported: 10/27/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Please note: The results for the equipment blank were confirmed by second analysis.

SEQUOIA ANALYTICAL

Peggy Perrner
Project Manager

Table 1. **Ground Water Elevations** – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	07/12/89	37.96	2.76	35.20
	01/30/90		3.10	34.86
	04/27/90		3.24	34.72
	07/31/90		4.26	33.70
	10/30/90		4.25	33.71
	01/31/91		3.66	34.30
	04/30/91		3.46	34.50
	07/30/91		4.14	33.82
	10/29/91		3.96	34.00
	01/20/92		3.59	34.37
	04/14/92		3.18	31.71
	07/21/92		4.17	33.79
	10/02/92		4.29	33.67
	01/20/93		2.32	35.64
	05/03/93		3.50	34.46
	06/28/93		3.76	34.20
	07/21/93		4.09	33.87
	10/19/93		3.58	34.38
	01/20/94		---	---
	04/12/94		3.60	34.36
	07/20/94		4.10	33.86
	10/06/94		4.30	33.66
	01/20/95		2.94	35.02
	07/06/95		3.68	34.28
	01/24/96		2.12	35.84
	07/12/96		3.58	34.38
	01/16/97		2.30	35.66
	10/24/97		3.66	34.30
	05/13/98		2.81	35.15
	10/01/98		**3.75**	**34.21**
MW-2	07/12/89	34.89	3.66	31.23
	01/30/90		3.49	31.40
	04/27/90		3.79	31.10
	07/31/90		4.03	30.86
	10/30/90		4.21	30.68
	01/31/91		4.09	30.80
	04/30/91		3.95	30.94
	07/30/91		4.07	30.82
	10/29/91		4.11	30.78
	01/20/92		3.86	31.03
	04/14/92		3.66	34.30
	07/21/92		3.92	30.97
	10/02/92		4.45	30.44
	01/20/93		3.74	31.15
	05/03/93		3.77	31.12

Table 1. **Ground Water Elevations** – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	06/28/93		3.96	30.93
	07/21/93		4.39	30.50
	10/19/93		3.92	30.97
	01/20/94		4.45	30.44
	04/12/94		4.72	30.17
	07/20/94		5.32	29.57
	10/06/94		4.03	30.86
	01/20/95		3.89	31.00
	07/06/95		8.84	26.05
	01/24/96		3.80	31.09
	07/12/96		3.85	31.04
	01/16/97		3.84	31.05
	10/24/97		3.75	31.14
	05/13/98		3.78	31.11
	10/01/98		**4.90**	**29.99**
MW-3	07/12/89	35.00	3.83	31.17
	01/30/90		3.24	31.76
	04/27/90		4.02	30.98
	07/31/90		4.31	30.69
	10/30/90		4.52	30.48
	01/31/91		4.33	30.67
	04/30/91		3.79	31.21
	07/30/91		4.37	30.63
	10/29/91		4.00	31.00
	01/20/92		3.87	31.13
	04/14/92		3.15	31.85
	07/21/92		4.17	30.83
	10/02/92		4.43	30.57
	01/20/93		2.20	32.80
	05/03/93		3.50	31.50
	06/28/93		4.08	30.92
	07/21/93		4.12	30.88
	10/19/93		4.20	30.80
	01/20/94		4.08	30.92
	04/12/94		3.70	31.30
	07/20/94		4.26	30.74
	10/06/94		4.31	30.69
	01/20/95		3.00	32.00
	07/06/95		3.75	31.25
	01/24/96		3.26	31.74
	07/12/96		3.77	31.23
	01/16/97		2.38	32.62
	10/24/97		4.12	30.88
	05/13/98		3.22	31.78
	10/01/98		**4.15**	**30.85**

Table 1. **Ground Water Elevations** – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-4	01/30/90	33.73	4.50	29.23
	04/27/90		3.62	30.11
	07/31/90		4.19	29.54
	10/30/90		4.19	29.54
	01/31/91		4.49	29.24
	04/30/91		4.02	29.71
	07/30/91		4.39	29.34
	10/29/91		3.75	29.98
	01/20/92		3.94	29.79
	04/14/92		3.71	30.02
	07/21/92		4.02	29.71
	10/02/92		4.13	29.60
	01/20/93		3.10	30.63
	05/03/93		3.70	30.03
	06/28/93		3.81	29.92
	07/21/93		3.81	29.92
	10/19/93		3.94	29.79
	01/20/94		4.00	29.73
	04/12/94		4.01	29.72
	07/20/94		3.91	29.82
	10/06/94		3.99	29.74
	01/20/95		3.56	30.17
	07/06/95		3.85	29.88
	01/24/96		2.56	31.17
	07/12/96		3.36	30.37
	01/16/97[c]		---	---
	10/24/97[c]		---	---
	05/13/98[c]		---	---
	10/01/98		**3.90**	**29.83**
MW-5	01/30/90	31.38	7.12	24.26
	04/27/90		4.19	27.19
	07/31/90		4.09	27.29
	10/30/90		4.39	26.99
	01/31/91		4.49	26.89
	04/30/91		4.27	27.11
	07/30/91		4.32	27.06
	10/29/91		3.79	27.59
	01/20/92		4.09	27.29
	04/14/92		4.12	27.26
	07/21/92		4.13	27.25
	10/02/92		4.30	27.08
	01/20/93		3.12	28.26
	05/03/93		4.07	27.31
	06/28/93		4.08	27.30
	07/21/93		4.05	27.33

Table 1. **Ground Water Elevations** – Shell-branded Service Station WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	10/19/93		4.20	27.18
	01/20/94		4.40	26.98
	04/12/94		4.18	27.20
	07/20/94		4.06	27.32
	10/06/94		4.01	27.37
	01/20/95		3.49	27.89
	07/06/95		4.06	27.32
	01/24/96		2.90	28.48
	07/12/96		4.02	27.36
	01/16/97		2.59	28.79
	10/24/97		4.15	27.23
	05/13/98		3.64	27.74
	10/01/98		**4.25**	**27.13**
E-4[d] (Abandoned)	07/12/89	34.63	a	>39.13
	01/30/90		b	>34.63
	04/27/90		b	>34.63
	07/31/90		b	>34.63
	10/30/90		b	>34.63
	01/31/91		b	>34.63
	04/30/91		b	>34.63
	07/30/91		b	>34.63
	10/29/91		b	>34.63
	01/20/92		b	>34.63
	04/14/92		b	>34.63
	07/21/92		b	>34.63
	10/02/92		b	>34.63
	01/20/93		b	>34.63
	05/03/93		b	>34.63
	06/28/93		b	>34.63
	07/21/93		b	>34.63
	10/19/93		b	>34.63
	01/20/94		b	>34.63
	04/12/94		b	>34.63
	07/20/94		b	>34.63
	10/06/94		b	>34.63
	01/20/95		b	>34.63

Abbreviations and Notes:

msl = Mean sea level
a = Well E-4 is a flowing artesian well. The potentiometric surface was greater than 4.5 ft above the top of the well casing
b = Well E-4 potentiometric surface was higher than the top of the well casing
c = Well inaccessible
d = Well abandoned June 16, 1995
--- = Not available

Table 2. **Analytical Results for Ground Water – Hydrocarbon Compounds** – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO[a] (mg/L)
			← (Concentrations in µg/L) →						
MW-1 (2nd & 4th)	07/12/89	2.76	<50	<0.5	<1	<1	<3	---	---
	01/30/90	3.10	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90	3.24	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	4.26	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90	4.25	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91	3.66	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	3.46	<50	0.8	<0.5	0.6	1.2	---	---
	07/30/91	4.14	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91	3.96	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/92	3.59	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	3.18	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	4.17	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	4.29	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	2.32	<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	3.50	<50	<0.5	<0.5	<0.5	<0.5	---	1.93
	07/21/93	4.09	<50	<0.5	<0.5	<0.5	<0.5	---	4.64
	10/19/93	3.58	50	<0.5	<0.5	<0.5	<0.5	---	4.31
	01/20/94[b]	---	---	---	---	---	---	---	---
	04/12/94	3.60	<50	<0.5	<0.5	<0.5	<0.5	---	7.46
	07/20/94	4.10	<50	<0.5	<0.5	<0.5	<0.5	---	3.2
	10/06/94	4.30	<50	<0.5	<0.5	<0.5	<0.5	---	3.2
	01/20/95	2.94	<50	<0.5	<0.5	<0.5	<0.5	---	10.6
	07/06/95	3.68	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/24/96	2.12	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/12/96	3.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2.7
	01/16/97	2.30	120	14	10	3.6	14	<2.5	3.0
	10/24/97	3.66	<50	<0.50	<0.50	<0.50	<0.50	8.6	4.5
	05/13/98	2.81	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.1
	10/01/98	**3.75**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**	**5.0**
MW-2 (4th)	07/12/89	3.66	60	2.7	<1	<1	<3	---	---
	01/30/90	3.49	<50	6.6	<0.5	0.54	0.93	---	---
	04/27/90	3.79	60	2.1	<0.5	<0.5	<0.5	---	---

Table 2. **Analytical Results for Ground Water – Hydrocarbon Compounds** – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO[a] (mg/L)
			← (Concentrations in µg/L) →						
	07/31/90	4.03	70	1.5	<0.5	<0.5	<0.5	---	---
	10/30/90	4.21	70	<0.5	0.7	<0.5	1.6	---	---
	01/31/91	4.09	80	<0.5	<0.5	0.9	1.9	---	---
	04/30/91	3.95	100	5.9	0.6	0.7	2.0	---	---
	07/30/91	4.07	<50	<0.5	<0.7	<0.5	<0.5	---	---
	10/29/91	4.11	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/92	3.86	<30	0.84	<0.3	<0.41	<0.48	---	---
	04/14/92	3.66	70	16	<0.5	3.1	2.1	---	---
	07/21/92	3.92	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	4.45	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	3.74	<50	3.8	<0.5	0.52	<0.5	---	---
	05/04/93	3.77	680[c]	2.8	<0.5	<0.5	<0.5	---	0.9
	07/21/93	4.39	<50	8.0	1.2	1.8	7.9	---	5.88
	10/19/93	3.92	<50	<0.5	<0.5	<0.5	<0.5	---	5.7
	01/20/94	4.45	<50	1.5	<0.5	<0.5	<0.5	---	3.2
	04/12/94	4.72	<50	2.9	<0.5	<0.5	<0.5	---	11.38
	07/20/94	5.32	<50	<0.5	<0.5	<0.5	<0.5	---	2.4
	10/06/94	4.03	<50	<0.5	<0.5	<0.5	<0.5	---	2.9
	01/20/95	3.89	290	28	<0.5	<0.5	<0.5	---	4.6
	07/06/95	3.84	120	3.0	<0.5	<0.5	<0.5	---	---
	01/24/96	3.80	70	3.1	<0.5	0.8	1.5	---	---
	01/24/96[dup]	3.80	70	3.2	0.5	0.7	1.5	---	---
	07/12/96	3.85	<50	0.68	<0.5	<0.5	<0.5	270	3.8
	01/16/97	3.84	230	34	1.6	1.6	4.2	460	---
	10/24/97	3.75	<50	<0.50	<0.50	<0.50	<0.50	54	2.9
	10/01/98	**4.90**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**100**	**3.0**
MW-3 (4th)	07/12/89	3.83	3,900	380	41	99	30	---	---
	01/30/90	3.24	5,500	440	35	79	130	---	---
	04/27/90	4.02	4,500	310	26	37	110	---	---
	07/31/90	4.31	3,500	210	17	8.4	62	---	---
	10/30/90	4.52	2,300	610	<0.5	<0.5	28	---	---
	01/31/91	4.33	4,100	300	20	19	81	---	---

Table 2. **Analytical Results for Ground Water – Hydrocarbon Compounds** – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO[a] (mg/L)
			← (Concentrations in µg/L) →						
	04/30/91	3.79	3,800	370	19	8.6	60	---	---
	07/30/91	4.37	3,300	160	13	15	87	---	---
	10/29/91	4.00	1,000	35	2.8	2.9	8.1	---	---
	01/20/92	3.87	6,900	380	18	47	48	---	---
	04/14/92	3.15	6,000	480	38	41	55	---	---
	07/21/92	4.17	3,700	330	13	30	23	---	---
	10/02/92	4.43	4,200	260	10	13	12	---	---
	01/20/93	2.20	4,200	360	15	32	26	---	---
	01/20/93[dup]	2.20	3,900	370	15	32	26	---	---
	05/04/93	3.50	12,000	290	520	120	620	---	0.63
	07/21/93	4.12	2,000	170	12	<10	11	---	4.34
	07/21/93[dup]	4.12	2,000	170	10	<10	14	---	---
	10/19/93	4.20	2,000	240	<0.5	<0.5	<0.5	---	5.74
	01/20/94	4.08	4,200	280	<10	<10	<10	---	4.1
	01/20/94[dup]	4.08	3,800	250	<10	<10	<10	---	4.1
	04/12/94	3.70	4,700	380	<10	<10	<10	---	10.62
	04/12/94[dup]	3.70	3,400	370	<25	<25	<25	---	---
	07/20/94	4.26	5,100	320	77	15	34	---	2.3
	07/20/94[dup]	4.26	4,400	250	14	13	32	---	---
	10/06/94	4.31	4,300	280	9.7	4.0	15	---	2.3
	01/20/95	3.00	4,600	180	18	16	10	---	11.1
	01/20/95[dup]	3.00	4,300	170	12	15	7.2	---	---
	07/06/95	3.75	3,900	310	<0.5	7.6	13	---	---
	07/06/95[dup]	3.75	4,100	330	<0.5	7.9	2.4	---	---
	01/24/96	3.26	5,000	210	14	14	12	---	---
	07/12/96	3.77	2,700	210	<0.5	<0.5	<0.5	3,600	2.4
	07/12/96[dup]	3.77	2,800	210	<0.5	<0.5	<0.5	3,400	2.4
	01/16/97	2.38	4,200	130	19	10	34	4,400(4,600)	2.3
	10/24/97	4.12	4,100	270	9.0	5.1	8.8	2,000	1.9
	10/24/97[dup]	4.12	1,700	220	<5.0	<5.0	<5.0	1,500	1.9
	10/01/98	**4.15**	**1,400**	**84**	**<5.0**	**<5.0**	**<5.0**	**2,300**	**2.0**
	10/01/98[dup]	**4.15**	**2,100**	**100**	**<10**	**<10**	**<10**	**2,600**	**2.0**

Table 2. **Analytical Results for Ground Water – Hydrocarbon Compounds** – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO[a] (mg/L)
			← (Concentrations in µg/L) →						
MW-4 (2nd & 4th)	01/31/90	4.50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90	3.62	130[c]	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	4.19	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90	4.19	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91	4.49	50[c]	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	4.02	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91	4.39	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91	3.75	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/92	3.94	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	3.71	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	4.02	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	4.13	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	3.10	<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	3.70	<50	<0.5	<0.5	<0.5	<0.5	---	1.74
	07/21/93	3.81	<50	0.56	<0.5	<0.5	<0.5	---	4.51
	10/10/93	3.94	<50	<0.5	<0.5	<0.5	<0.5	---	5.75
	01/20/94	4.00	<50	0.71	<0.5	<0.5	<0.5	---	4.4
	04/12/94	4.01	<50	<0.5	<0.5	<0.5	<0.5	---	7.29
	07/20/94	3.91	160	<0.5	<0.5	<0.5	<0.5	---	6.4
	10/11/94	3.99	410	<0.5	<0.5	<0.5	<0.5	---	5.0
	01/20/95	3.56	<50	<0.5	<0.5	<0.5	<0.5	---	4.9
	07/06/95	3.85	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/24/96	2.56	<50	<0.5	<0.5	0.6	1.8	---	---
	07/12/96	3.36	<50	<0.5	<0.5	<0.5	<0.5	---[e]	2.7
	01/16/97[b]	---	---	---	---	---	---	---	---
	10/24/97[b]	---	---	---	---	---	---	---	---
	05/13/98[b]	---	---	---	---	---	---	---	---
	10/01/98	**3.90**	**<50**	**<0.50**	**<0.50**	**<0.50**	**0.74**	**8.1**	**2.5**
MW-5 (2nd & 4th)	01/31/90	7.12	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90	4.19	210[c]	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	4.09	90	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90	4.39	100	0.8	0.7	0.6	1.4	---	---

Table 2. **Analytical Results for Ground Water – Hydrocarbon Compounds –** Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO[a] (mg/L)
			← (Concentrations in µg/L) →						
	01/31/91	4.49	80[c]	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	4.27	90	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91	4.37	90	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91	3.79	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/92	4.09	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	4.12	<50[c]	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	4.13	74[c]	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	4.30	76[c]	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	3.12	72[c]	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	4.07	70[c]	<0.5	<0.5	<0.5	<0.5	---	1.62
	05/04/93[dup]	4.07	80[c]	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/93	4.05	<50	<0.5	<0.5	<0.5	<0.5	---	3.46
	10/19/93	4.20	51	<0.5	<0.5	<0.5	<0.5	---	3.82
	01/20/94	4.40	90	<0.5	<0.5	<0.5	<0.5	---	4.2
	04/12/94	4.18	67	<0.5	<0.5	<0.5	<0.5	---	---
	07/20/94	4.06	<50	<0.5	<0.5	<0.5	<0.5	---	3.2
	10/06/94	4.01	80	<0.5	<0.5	<0.5	<0.5	---	2.1
	10/06/94[dup]	4.01	60	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/95	3.49	<50	<0.5	<0.5	<0.5	<0.5	---	3.2
	07/06/95	4.06	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/24/96	2.90	70	<0.5	<0.5	0.8	2.9	---	---
	07/12/96	4.02	62	<0.5	<0.5	<0.5	<0.5	---[e]	1.9
	01/16/97	2.59	66	0.91	0.89	<0.50	1.7	<2.5	2.2
	01/16/97[dup]	2.59	<50	0.70	0.78	<0.50	1.3	<2.5	2.2
	10/24/97	4.15	59	<0.50	<0.50	<0.50	<0.50	17	4.6
	05/13/98	3.64	72	<0.50	<0.50	<0.50	<0.50	<2.5	2.1
	05/13/98[dup]	3.64	70	<0.50	<0.50	<0.50	<0.50	<2.5	2.1
	10/01/98	**4.25**	**57**	**<0.50**	**<0.50**	**<0.50**	**0.62**	**20**	**2.2**
E-4[f] (Abandoned)	07/12/89	---[d]	<50	<0.5	<1	<1	<3	---	---
	01/31/90	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90	---[d]	120[c]	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---

Table 2. **Analytical Results for Ground Water – Hydrocarbon Compounds** – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO[a] (mg/L)
			← (Concentrations in µg/L) →						
	10/30/90	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91	---[d]	<50	<0.5	0.6	<0.5	<0.5	---	---
	10/29/91	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/92	---[d]	<30	<0.3	<0.3	<0.3	<0.3	---	---
	04/14/92	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/92	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/04/93	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	0.63
	07/21/93	---[d]	<50	5.4	0.72	1.0	4.4	---	5.44
	10/19/93	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	5.63
	01/20/94	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/12/94	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	9.41
	07/20/94	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	2.0
	10/06/94	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	1.3
	01/20/95	---[d]	<50	<0.5	<0.5	<0.5	<0.5	---	3.7
Trip Blank	07/12/89		<50	<0.5	<1	<1	<3	---	---
	01/31/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/31/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/30/90		<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/30/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/30/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/91		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92		<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/93		<50	<0.5	<0.5	<0.5	<0.5	---	---
	05/03/93		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/21/93		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/19/93		<50	<0.5	<0.5	<0.5	<0.5	---	---

Table 2. **Analytical Results for Ground Water – Hydrocarbon Compounds** – Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California (continued)

Well ID (Qtrs Sampled)	Date Sampled	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	DO[a] (mg/L)
			← (Concentrations in µg/L) →						
	01/20/94		<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/12/94		<50	<0.5	0.71	<0.5	<0.5	---	---
	07/20/94		<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/06/94		<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/20/95		<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/06/95		<50	<0.5	<0.5	<0.5	<0.5	---	---
Bailer Blank	04/27/90		110[c]	<0.5	<0.5	<0.5	<0.5	---	---
	01/31/91		<5	<0.5	<0.5	<0.5	<0.5	---	---
	10/02/92		ND	ND	ND	ND	ND	---	---

Equipment Blank	**10/01/98**		**<50**	**1.3**	**11**	**0.98**	**6.5**	**<2.5**	**---**
MCLs			NE	1	150	700	1,750	NE	

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses indicates MTBE by EPA Method 8260.
DO = Dissolved oxygen
µg/L = Micrograms per liter
MCLs = California primary maximum contaminant levels for drinking water (22 CCR 64444)
NE = MCLs not established
ND = Not detected

Notes:

a = Field measurement of dissolved oxygen concentration
b = Well inaccessible; not sampled
c = Chromatogram contained discrete peaks not representative of gasoline
d = Artesian well; potentiometric surface above top-of-casing elevation
e = Due to coelution with early eluters, no result could be determined for MTBE
f = Well abandoned June 16, 1995
--- = Not analyzed/Not available
<n = Below detection limit of n µg/L

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Table 3. **Ground Water Analytical Data - Halogenated Volatile Organic Compounds** - Shell-branded Service Station
WIC #204-6001-0109, 29 Wildwood Avenue, Piedmont, California

Well ID (Qtrs Sampled)	Date	cis- 1,2-Dichloroethene	trans- 1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Notes
		← (Concentrations in µg/L) →				
MW-1 (2nd & 4th)	05/13/98	<0.50	<0.50	<0.50	<0.50	a
	10/01/98	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-2 (4th)	**10/01/98**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-3 (4th)	**10/01/98**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
	10/01/98	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**duplicate**
MW-4 (2nd & 4th)	05/13/98	---	---	---	---	b
	10/01/98	**2.5**	**1.5**	**3.2**	**1.1**	
MW-5 (2nd & 4th)	05/13/98	16	9.3	200	28	a
	05/13/98	16	8.7	190	19	a, duplicate
	10/01/98	**9**	**5.1**	**95**	**12**	

Abbreviations & Notes:

µg/L = Micrograms per liter
--- = Not available
<n = Below detection limits of n µg/L
a = Chloroform was detected at 120 µg/L in the equipment blank; samples analyzed past hold time
b = Well inaccessible

Halogenated volatile organic compounds by EPA Method 8010; only detected compounds are tabulated

Attachment A

Blaine Ground Water Monitoring Report

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

December 18, 1998

Equiva Services, L.L.C.
P.O. Box 6249
Carson, CA 90749-6249

Attn: Karen Petryna

Shell WIC #204-6001-0109
29 Wildwood Ave.
Piedmont, California

4th Quarter 1998

Groundwater Monitoring Report 981001-R-1

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
1144 65th St. Suite C
Oakland, CA 94608-2411
Attn: Anni Kreml

(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	10/01/98	TOC	--	NONE	--	--	3.75	13.20
MW-2	10/01/98	TOC	--	NONE	--	--	4.90	11.45
MW-3*	10/01/98	TOC	--	NONE	--	--	4.15	9.01
MW-4	10/01/98	TOC	--	NONE	--	--	3.90	12.95
MW-5	10/01/98	TOC	--	NONE	--	--	4.25	15.92

* Sample DUP was a duplicate sample taken from well MW-3.