CAMBRIA

ENVIRONMENTAL
PROTECTION

98 AUG 19 AM 2:18

August 15, 1998

Ms. Karen Petryna
Equilon Enterprises, LLC
Equiva Services, LLC
108 Cutting Boulevard
Richmond, California 94804

#229

Re: **Quarterly Monitoring Report - Second Quarter 1998**
Former Shell Service Station
2101 Park Boulevard
Oakland, California
WIC #204-5508-1206

Dear Ms. Petryna:

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 (ACHCSA).

Quarterly Monitoring & Sampling Summary

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

- Blaine Tech Services Inc. (Blaine), of San Jose, California measured ground water levels in Wells S-1, S-2, and S-3 and collected ground water samples from Well S-3 on June 8, 1998. Ground water levels were measured again on June 17, 1998 in Well S-3. The samples were transported to Sequoia Analytical of Redwood City, California for chemical analysis.

- Ground water level measurement data were evaluated and used to prepare a ground water contour map (Plate 2). The ground water flow direction appears to be south at an approximate hydraulic gradient of 0.06.

- The ground water sample from Well S-3 contained 2,500 ppb TPPH, 220 ppb benzene, and no detectable MTBE.

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

Cambria
Environmental
Technology, Inc

2964 Peralta Street
P.O. Box 259
Sonoma, CA 95476
Tel (707)935-4850
Fax (707)935-6649

Quarterly Sampling

Monitoring Well S-3 was sampled and analyzed for Total Purgeable Petroleum Hydrocarbons quantitated as gasoline (TPPH) according to EPA Method 8015 (Modified), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tertiary-butyl-ether (MTBE) according to EPA Method 8020, alkalinity by EPA Method 310.2, total dissolved solids by EPA Method 160.1, nitrates and sulfates by EPA Method 300.0, and ferrous iron by EPA Method 6010. Additionally, a duplicate sample was collected and analyzed for quality control purposes.

Field monitoring data and chemical analytical data have been included in Table 1. A ground water contour/chemical concentration map is presented as Plate 2. Blaine's ground water monitoring report is presented in Appendix A.

Sampling in Wells S-1 and S-2 has been discontinued in accordance with the revised sampling schedule proposed by the ACHCSA in a letter dated May 27, 1998. Quarterly monitoring, sampling, and reporting will continue on the revised schedule for the next quarter. Oxygen Releasing Compound (ORC) was installed in Wells S-2 and S-3 on March 3, 1998. The results of additional ground water sample analysis performed this quarter are presented in Appendix A.

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

Sincerely,
Cambria Environmental Technology, Inc.

Thomas Magney
Project Geologist

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

REGISTERED PROFESSIONAL ENGINEER
DIANE M. LUNDQUIST
No. C45725

Attachments

Table 1. Well Concentrations

Plate 1. Vicinity Map
Plate 2. Ground Water Contour/Chemical Concentration Map

Appendix A

Blaine Tech Services Inc. - Ground Water Monitoring Report

cc: Mr. Barney Chan, Alameda County Health Care Services Agency
Mr. Frank J. Schlessinger, Schlessinger & Associates
Mr. Steve Makara, Goodyear Tire & Rubber Company

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, California
WIC #204-5508-1206

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	O & G by 5520 B (ug/L)	O & G by 5520 B/F (ug/L)	dO (ppm)	dO Method	Comments
S-1	Top casing elevation (ft):		11.93												
20-Jun-95	4.67	7.26	0.00	160	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	
12-Sep-95	4.19	7.74	0.00	<50	250	3.0	<0.5	<0.5	<0.5	NA	<5000	<5000	NA	NA	
28-Dec-95	5.30	6.63	0.00	70	160	1.1	<0.5	<0.5	1.3	NA	<5000	<5000	NA	NA	
25-Mar-96	3.44	8.49	0.00	70	220	<0.5	<0.5	<0.5	<0.5	<2.0	NA	NA	NA	NA	
27-Jun-96	3.15	8.78	0.00	<50	140	0.59	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
26-Sep-96	3.90	8.03	0.00	<50	190	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
10-Dec-96	2.46	9.47	0.00	<50	84	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
10-Mar-97	2.93	9.00	0.00	<50	200	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
26-Jun-97	3.91	8.02	0.00	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
30-Sep-97	4.00	7.93	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
15-Dec-97	2.83	9.10	0.00	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
12-Mar-98	1.73	10.20	0.00	<50	100	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	2.7	YSI Meter	Nitrate: 5.9 ppm
08-Jun-98	6.05	5.88	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.8	NA	
S-2	Top casing elevation (ft):		12.06												
20-Jun-95	5.80	6.26	0.00	180	NA	1.1	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	
12-Sep-95	5.78	6.28	0.00	190	NA	18	<0.5	1.2	0.6	NA	NA	NA	NA	NA	
28-Dec-95	4.02	8.04	0.00	200	NA	11	1.0	1.0	4.0	NA	NA	NA	NA	NA	
25-Mar-96	5.56	6.50	0.00	180	NA	12	0.8	1.4	1.0	<2.0	NA	NA	NA	NA	
27-Jun-96	6.00	6.06	0.00	150	NA	7.7	0.79	0.93	0.5	<2.5	NA	NA	NA	NA	
26-Sep-96	5.73	6.33	0.00	83	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
10-Dec-96	4.57	7.49	0.00	78	NA	1.4	<0.50	0.57	<0.50	<2.5	NA	NA	NA	NA	
10-Mar-97	5.38	6.68	0.00	61	NA	1.6	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
26-Jun-97	5.68	6.38	0.00	90	NA	1.5	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
30-Sep-97	5.75	6.31	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
15-Dec-97	5.35	6.71	0.00	<50	NA	4.1	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
12-Mar-98	4.71	7.35	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	4.3	YSI Meter	Nitrate: 16 ppm
08-Jun-98	8.41	3.65	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	NA	
S-2 (DUP)															
10-Mar-97	NA	NA	NA	77	NA	2.0	<0.50	0.69	<0.50	<2.5	NA	NA	NA	NA	
26-Jun-97	3.91	8.02	0.00	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	

TABLE 1

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, California
WIC #204-5508-1206

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	O & G by 5520 B (ug/L)	O & G by 5520 B/F (ug/L)	dO (ppm)	dO Method	Comments
30-Sep-97	5.75	6.31	0.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	
S-3	Top casing elevation (ft):			13.54											
20-Jun-95	4.90	8.64	0.00	5500	NA	240	34	120	840	NA	NA	NA	NA	NA	
12-Sep-95	5.37	8.17	0.00	5200	NA	690	14	290	280	NA	NA	NA	NA	NA	
28-Dec-95	3.90	9.64	0.00	13000	NA	670	34	960	1400	NA	NA	NA	NA	NA	
25-Mar-96	4.30	9.24	0.00	7300	NA	560	65	540	820	<200	NA	NA	NA	NA	
27-Jun-96	5.00	8.54	0.00	17000	NA	1100	83	1200	2700	<250	NA	NA	NA	NA	
26-Sep-96	5.23 ✓	8.31	0.00	8900	NA	920	43	400	1100	<125	NA	NA	NA	NA	
10-Dec-96	3.88	9.66	0.00	6100	NA	470	25	290	640	<100	NA	NA	NA	NA	
10-Mar-97	4.10	9.44	0.00	7000	NA	720	29	340	620	110	NA	NA	NA	NA	
26-Jun-97	5.23 ✓	8.31	0.00	11000	NA	1100	63	470	1300	150	NA	NA	NA	NA	
30-Sep-97	5.36 ✓	8.18	0.00	25000	NA	970	170	1200	4600	<50	NA	NA	NA	NA	
30-Sep-97	5.36 ✓	8.18	0.00	25000	NA	970	170	1200	4600	<50	NA	NA	NA	NA	
15-Dec-97	3.81	9.73	0.00	9800	NA	840	55	420	1100	350	NA	NA	NA	NA	
12-Mar-98	4.79	8.75	0.00	2800	NA	260	21	140	600	<12	NA	NA	4.8	YSI Meter	Nitrate: 7.9 ppm
08-Jun-98	5.60	7.94	0.00	2500	420	220	23	170	600	<20	NA	NA	NA	NA	Alkalinity: Total 730 ppm, Ferrous Iron 0.85 ppm, Nitrate <1.0, Sulfate 21 ppm. TDS 800 ppm.
17-Jun-98	3.49	10.05	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-3 (DUP)															
20-Jun-95	NA	NA	NA	6300	NA	270	37	120	1100	NA	NA	NA	NA	NA	
12 Sep-95	NA	NA	NA	4700	NA	620	13	260	240	NA	NA	NA	NA	NA	
28-Dec-95	NA	NA	NA	13000	NA	800	34	1000	1600	NA	NA	NA	NA	NA	
25-Mar-96	NA	NA	NA	7400	NA	580	19	620	670	<20	NA	NA	NA	NA	
27-Jun-96	NA	NA	NA	1903	NA	13	1.0	14	34	7.2	NA	NA	NA	NA	
26-Sep-96	NA	NA	NA	9800	NA	960	41	450	1300	120	NA	NA	NA	NA	MTBE by 8260: <16 ppb (a)
10-Dec-96	NA	NA	NA	7700	NA	550	33	380	880	120	NA	NA	NA	NA	
26-Jun-97	NA	NA	NA	12000	NA	1100	62	480	1400	<100	NA	NA	NA	NA	
15-Dec-97	NA	NA	NA	9800	NA	850	56	420	1100	360	NA	NA	NA	NA	MTBE by 8260: <20 ppb
12-Mar-98	NA	NA	NA	2100	NA	200	15	110	450	<12	NA	NA	NA	NA	Nitrate: 8.9 ppm
08-Jun-98	NA	NA	NA	3200	NA	270	30	220	740	76	NA	NA	NA	NA	

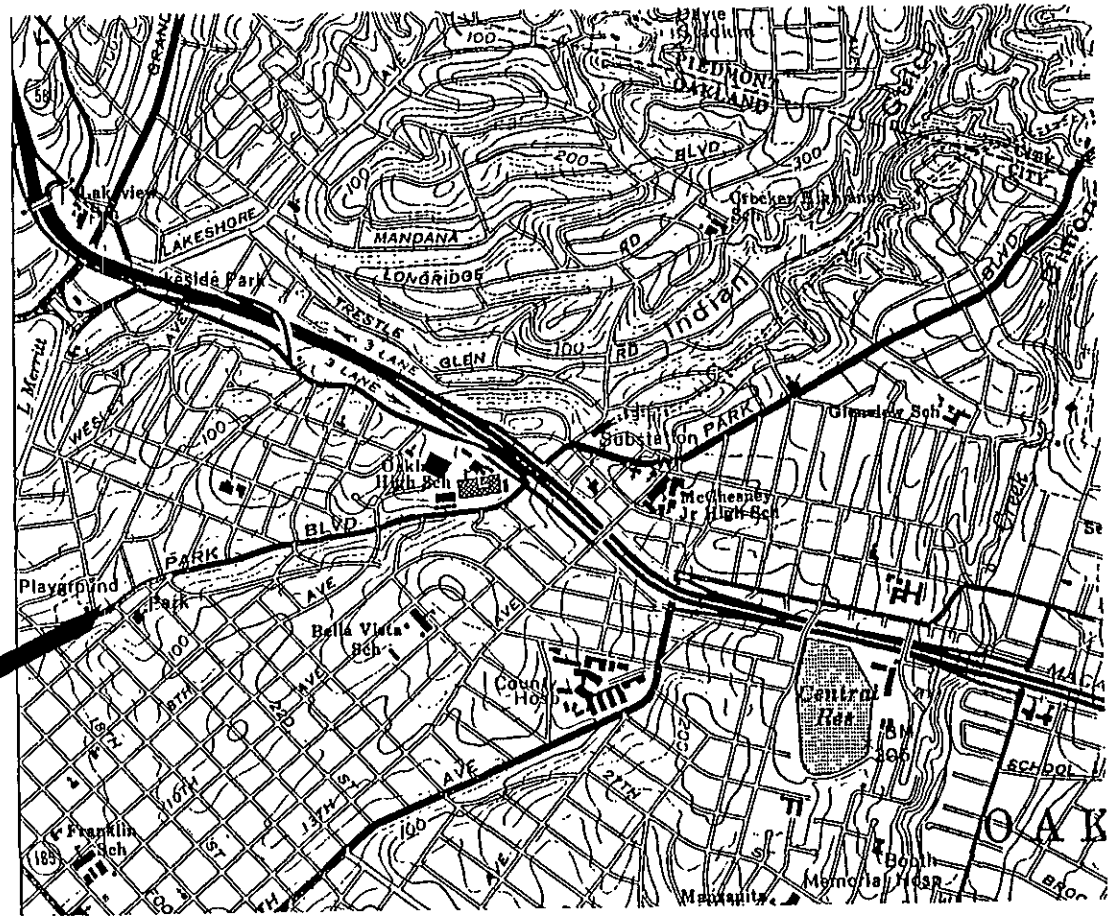

PLATE
1

VICINITY MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

CAMBRIA
240-0865

Drawn By: GLV

Date: 2-24-95

Approved By: _____ Date: 8-12 98

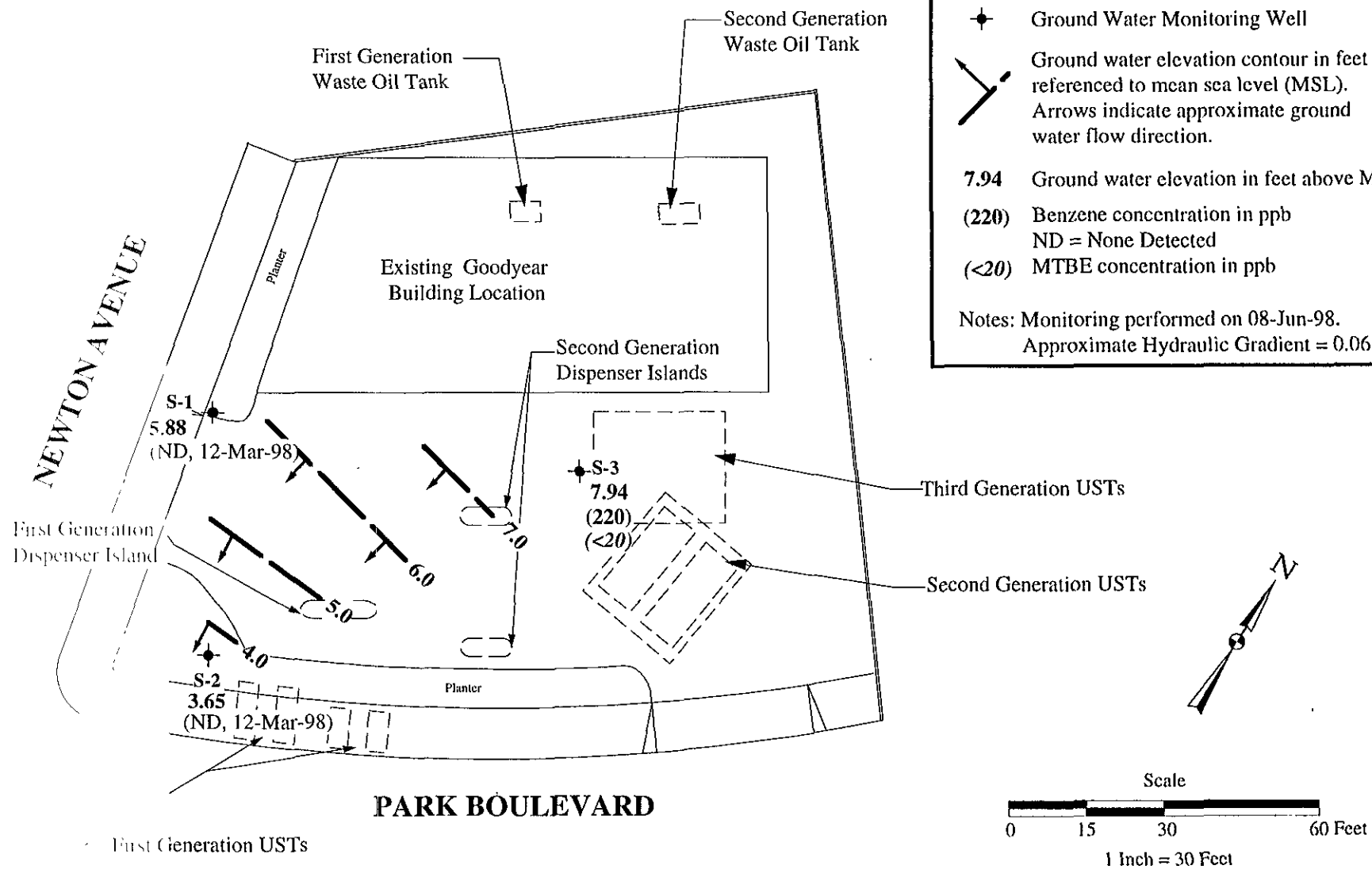

PLATE
2

GROUND WATER CONTOUR/CHEMICAL CONCENTRATION MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

CAMBRIA
240-0865

Drawn By TNM | Date: 11-Aug-98 | Approved By: mh | Date: 8-12-98

BLAINE
TECH SERVICES INC.

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

July 7, 1998

Shell Oil Company
P.O. Box 8080
Martinez, CA 94553

Attn: Alex Perez

RECEIVED
JUL 13 1998
BY:_____

Shell WIC #204-5508-1206
2101 Park Blvd.
Oakland, California

2nd Quarter 1998

Groundwater Monitoring Report 980608-M-4

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)
S-1	06/08/98	TOC	--	NONE	--	--	6.05	16.90
S-2	06/08/98	TOC	--	NONE	--	--	8.41	17.32
S-3*	06/08/98	TOC	--	NONE	--	--	5.60	16.90
S-3	06/17/98	TOC	--	NONE	--	--	3.49	16.80

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

Revised

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date:
Page 01 of 01

Site Address: 2101 Park Blvd., Oakland, CA

WIC #: 204-5508-1206

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: 980608 - MC

Sampled by:

Printed Name: M. Wetmore

LAB: SEQL

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	Alkinity/Sulfate	Nitrate	~~Laboratory~~ Ferrous Iron	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-3 4hr ✓	6/8	H2O		X		8		X				X	X	X	X					
Dup ✓	"			X		3		~~X~~				X								
TB		H2O		X		3						X								

TURN AROUND TIME

CHECK ONE (1) BOX ONLY — CT/DT

G.W. Monitoring	XX	4441
Site Investigation		4441
Soil Classify/Disposal		4442
Water Classify/Disposal		4443
Soil/Air Rem. or Sys. O & M		4452
Water Rem. or Sys. O & M		4453
Other		

TURN AROUND TIME

- 24 hours ☐
- 48 hours ☐
- 10 days XX (Normal)
- Other ☐ _____

NOTE: Notify lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: _____

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
M. Wetmore	M. Wetmore	6-9-98	10:00	Jeff Bonneville	Jeff Bonneville	6-9-98	10:00

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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: ____

Date:
Page 01 of 01

Site Address: 2101 Park Blvd., Oakland, CA

WIC#: 204-5508-1206

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

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

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

Comments: 980608-M4

Sampled by:

Printed Name: M. Wetmore

Analysis Required — 9806555

LAB: SEQ

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	[X]	4441
Site Investigation	[ ]	4441
Soil Classify/Disposal	[ ]	4442
Water Classify/Disposal	[ ]	4443
Soil/Air Rem. or Sys. O & M	[ ]	4452
Water Rem. or Sys. O & M	[ ]	4453
Other	[ ]	

TURN AROUND TIME: 24 hours [ ] 48 hours [ ] 16 days [X] (Normal) Other [ ] ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

JUN 9 11 12

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	Alkinity/Sulfur	Nitrate	~~Asbestos~~ Ferrous Iron	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1 S-3	6/6	1400		X		8		X				X	X	X	X					
2 Dup	"			X		3		~~X~~				X								
~~EB~~		~~1410~~		~~X~~		~~3~~						~~X~~								

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
M. W.	M. Wetmore	Date: 6-9-98 Time: 10:00	Jeff Bonnville	Jeff Bonnville	Date: 6-9-98 Time: 10:00
Jeff Bonnville	Jeff Bonnville	Date: 6-9-98 Time:			Date: Time:
		Date: Time:	G. Blanco	G. BLANCO	Date: 6/9/98 Time: 11:12

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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 980617-C2

Date:
Page 1 of 1

Site Address: 2101 Park Blvd., Oakland, CA

WIC#: 204-5508-1206

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

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

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

Comments:

Sampled by: C. Jr

Printed Name: Cassidy McIntire

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring [X]	4461
Site Investigation [ ]	4441
Soil Classify/Disposal [ ]	4442
Water Classify/Disposal [ ]	4443
Soil/Air Rem. or Sys. O & M [ ]	4452
Water Rem. or Sys. O & M [ ]	4453
Other [ ]	

TURN AROUND TIME
- 24 hours [ ]
- 48 hours [ ]
- 16 days [X] (Normal)
- Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Analysis Required

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	TDS		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-3	6/17			W		1							X							

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
[signature]	Cassidy McIntire	Date: 6-18-98 Time: 9:40	[signature]	LANCE A. DAVIDSON	Date: 6-18-98 Time: 9:40
[signature]	LANCE A. DAVIDSON	Date: 6-18-98 Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	[signature] G. Blanco	G.C. BLANCO	Date: 6-18-98 Time: 1143

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

· 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

Blaine Tech Services	Client Proj. ID: Shell 2101 Park Blvd.	Sampled: 06/08/98
1680 Rogers Avenue		Received: 06/09/98
San Jose, CA 95112	Lab Proj. ID: 9806555	Analyzed: see below
Attention: Fran Thie		Reported: 07/02/98

LABORATORY ANALYSIS

Lab No: 9806555-01
Sample Desc : **LIQUID,S-3**

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Alkalinity: Total	**mg CaCO3/L**	**06/16/98**	**20.0**	**730**
Ferrous Iron	**mg/L**	**06/18/98**	**0.010**	**0.85**
Nitrate as Nitrate	mg/L	06/09/98	1.0	N.D.
Sulfate	**mg/L**	**06/09/98**	**10**	**21**

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
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

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

Project: Shell 2101 Park Blvd.

Enclosed are the results from samples received at Sequoia Analytical on June 9, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9806555 -01	LIQUID, S-3	06/08/98	Purgeable TPH/BTEX/MTBE
9806555 -01	LIQUID, S-3	06/08/98	TPHD_W Extractable TPH
9806555 -01	LIQUID, S-3	06/08/98	Alkalinity: Total
9806555 -01	LIQUID, S-3	06/08/98	Sulfur
9806555 -01	LIQUID, S-3	06/08/98	Nitrate as Nitrate
9806555 -01	LIQUID, S-3	06/08/98	Ferrous Iron
9806555 -02	LIQUID, DUP	06/08/98	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 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 2101 Park Blvd.	Sampled: 06/08/98
1680 Rogers Avenue	Sample Descript: S-3	Received: 06/09/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/18/98
	Analysis Method: 8015Mod/8020	Analyzed: 06/18/98
Attention: Fran Thie	Lab Number: 9806555-01	Reported: 07/02/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**2500**
Methyl t-Butyl Ether	20	N.D.
Benzene	**3.0**	**220**
Toluene	**3.0**	**23**
Ethyl Benzene	**3.0**	**170**
Xylenes (Total)	**6.0**	**600**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

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

SEQUOIA ANALYTICAL - ELAP #1197

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 2101 Park Blvd.	Sampled: 06/08/98
1680 Rogers Avenue	Sample Descript: S-3	Received: 06/09/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/18/98
	Analysis Method: EPA 8015 Mod	Analyzed: 06/19/98
Attention: Fran Thie	Lab Number: 9806555-01	Reported: 07/02/98

QC Batch Number: GC0618980HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	420
Chromatogram Pattern:		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	94

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 2101 Park Blvd.	Sampled: 06/08/98
1680 Rogers Avenue	Sample Descript: DUP	Received: 06/09/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/18/98
	Analysis Method: 8015Mod/8020	Analyzed: 06/18/98
Attention: Fran Thie	Lab Number: 9806555-02	Reported: 07/02/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**3200**
Methyl t-Butyl Ether	**20**	**76**
Benzene	**3.0**	**270**
Toluene	**3.0**	**30**
Ethyl Benzene	**3.0**	**220**
Xylenes (Total)	**6.0**	**740**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

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

SEQUOIA ANALYTICAL - ELAP #1197

Peggy Renner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 2101 Park Blvd.
Matrix: Liquid
Work Order #: 9806555 -01

Reported: Jun 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME061898601OM2A	ME061898601OM2A	ME061898601OM2A	ME061898601OM2A
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	980655501	980655501	980655501	980655501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/18/98	6/18/98	6/18/98	6/18/98
Analyzed Date:	6/18/98	6/18/98	6/18/98	6/18/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	0.95	0.96	0.96	0.97
MS % Recovery:	95	96	96	97
Dup. Result:	0.96	0.96	0.96	0.97
MSD % Recov.:	96	96	96	97
RPD:	1.0	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	CCVMI061798	CCVMI061798	CCVMI061798	CCVMI061798
Prepared Date:	6/17/98	6/17/98	6/17/98	6/17/98
Analyzed Date:	6/18/98	6/18/98	6/18/98	6/18/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	5.0 mg/L	5.0 mg/L	5.0 mg/L	5.0 mg/L
LCS Result:	4.7	4.7	4.9	4.9
LCS % Recov.:	94	94	98	98
MS/MSD	80-120	80-120	80-120	80-120
LCS	80-120	80-120	80-120	80-120
Control Limits				

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.

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

Sequoia Analytical

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

Client Project ID: Shell 2101 Park Blvd.
Matrix: Liquid
Work Order #: 9806555-01-02

Reported: Jun 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	HF18G11W	HF18G11W	HF18G11W	HF18G11W	HF18G11W
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015	EPA 8015	EPA 8015	EPA 8015	EPA 8015
Analyst:	R. McRae	R. McRae	R. McRae	R. McRae	R. McRae
MS/MSD #:	V8060751	V8060751	V8060751	V8060751	V8060751
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	5.7
Prepared Date:	6/18/98	6/18/98	6/18/98	6/18/98	6/18/98
Analyzed Date:	6/18/98	6/18/98	6/18/98	6/18/98	6/18/98
Instrument I.D.#:	-	-	-	-	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	220 µg/L
Result:	21	20	22	63	218
MS % Recovery:	106	100	108	104	97
Dup. Result:	20	19	20	59	221
MSD % Recov.:	101	95	102	99	98
RPD:	4.9	5.1	10	6.6	1.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:					
Prepared Date:					
Analyzed Date:					
Instrument I.D.#:					
Conc. Spiked:					
LCS Result:					
LCS % Recov.:					
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL
Elap #1855

Reggy 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

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

Client Project ID: Shell 2101 Park Blvd.

QC Sample Group: 9806555-01

Reported: Jun 25, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 310.2
Analyst:	K. CESAR
ANALYTE	ALKALINITY

QC Batch #: IN0616983102FIA

Sample No.:	9806781-17
Date Prepared:	6/16/98
Date Analyzed:	6/16/98
Instrument I.D.#:	FIA
Sample Conc., mg/L:	100
Conc. Spiked, mg/L:	100
Matrix Spike, mg/L:	230
% Recovery:	130
Matrix pike Duplicate, mg/L:	210
% Recovery:	110
elative % Difference:	17
RPD Control Limits:	0-20

LCS Batch#: LCS061698

Date Prepared:	6/16/98
Date Analyzed:	6/16/98
Instrument I.D.#:	FIA
Conc. Spiked, mg/L:	34
LCS Recovery, mg/L:	39
LCS % Recovery:	115

Percent Recovery Control Limits:

MS MSD	75-125
LCS	80-120

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

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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

Client Project ID: Shell 2101 Park Blvd.

QC Sample Group: 9806555-01

Reported: Jun 25, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid						
Method:	EPA 300.0						
Analyst:	G. Fish						
ANALYTE	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
QC Batch #:	609983000ACC						
Sample No.:	9806553-1						
Date Prepared:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Date Analyzed:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Sample Conc., mg/L:	N.D.	52	N.D.	N.D.	N D.	N D	610
Conc. Spiked, mg/L:	1000	1000	1000	1000	1000	1000	1000
Matrix Spike, mg/L:	1000	920	950	910	920	900	1600
% Recovery:	100.0	87	95	91	92	90	99
Matrix pike Duplicate, mg/L:	1000	920	960	910	930	920	1600
% Recovery:	100.0	87	96	91	93	92	99
elative % Difference:	0.0	0.0	1 0	0.0	1.1	2.2	0.0
RPD Control Limits:							

LCS Batch#:	IN0609983000ACC						
Date Prepared:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Date Analyzed:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Conc. Spiked, mg/L:	10	10	10	10	10	10	10
LCS Recovery, mg/L:	10.0	9.1	9.7	9.1	9.2	9.3	9.2
LCS % Recovery:	100.0	91	97	91	92	93	92

Percent Recovery Control Limits:

MS MSD	75-125	75-125	75-125	75-125	75-125	75-125	75-125
LCS	90-110	90-110	90-110	90-110	90-110	90-110	90-110

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, interference 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 2101 Park Blvd.

QC Sample Group: 9806555-01

Reported: Jun 25, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid						
Method:	EPA 300.0						
Analyst:	G FISH						
ANALYTE	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
QC Batch #:	609983000ACB						
Sample No.:	9806506-2						
Date Prepared:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Date Analyzed:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Sample Conc., mg/L:	1.7	94	N.D.	N.D.	16	5.9	150
Conc. Spiked, mg/L:	100	100	100	100	100	100	100
Matrix Spike, mg/L:	110	200	95	91	110	90	240
% Recovery:	108	106	95	91	94	84	90
Matrix pike Duplicate, mg/L:	100	200	96	91	110	91	240
% Recovery:	98	106	96	91	94	85	90
elative % Difference:	9 7	0.0	1.0	0.0	0.0	1.2	0.0
RPD Control Limits:							

LCS Batch#:	IN0609983000ACB						
Date Prepared:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Date Analyzed:	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98	6/9/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Conc. Spiked, mg/L:	10	10	10	10	10	10	10
LCS Recovery, mg/L:	10.0	9 1	9.7	9.1	9.3	9.2	9.0
LCS % Recovery:	100.0	91	97	91	93	92	90

Percent Recovery Control Limits.

MS MSD	75-125	75-125	75-125	75-125	75-125	75-125	75-125
LCS	90-110	90-110	90-110	90-110	90-110	90-110	90-110

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

SEQUOIA ANALYTICAL

Peggy Fenner
Project Manager

Please Note

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Blaine Tech Services	Client Proj. ID: Shell 2101 Park Blvd.	Received: 06/09/98
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9806555	Reported: 06/25/98
Attention: Fran Thie		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 11 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

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 2101 Park Blvd.	Received: 06/09/98
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9806555	Reported: 07/02/98
Attention: Fran Thie		

LABORATORY NARRATIVE

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

Report revised 7/2/98.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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

Project: Shell 2101 Park Blvd.

Enclosed are the results from samples received at Sequoia Analytical on June 18, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9806C82 -01	LIQUID, S-3	06/17/98	Total Dissolved Solids

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

for

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell 2101 Park Blvd.

Lab Proj. ID: 9806C82

Sampled: 06/17/98
Received: 06/18/98
Analyzed: see below

Reported: 06/29/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9806C82-01 Sample Desc : **LIQUID,S-3**				
Total Dissolved Solids	**mg/L**	**06/24/98**	**20**	**800**

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

Client Project ID: Shell 2101 Park Blvd.

QC Sample Group: 9806C82-01

Reported: Jun 29, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 160.1
Analyst:	RDave
ANALYTE	Total Dissolved Solids

QC Batch #: IN062498160100A

Sample No.: 9806D57-04C
Date Prepared:
Date Analyzed: 6/24/98

Sample Conc., mg/L:	N.D.
Conc. Spiked, mg/L:	500
Matrix Spike, mg/L:	450
% Recovery:	96
Matrix pike Duplicate, mg/L:	450
% Recovery:	96
elative % Difference:	0.0
RPD Control Limits:	0-20

LCS Batch#: LCS062498

Date Prepared: 6/24/98
Date Analyzed: 6/24/98

Conc. Spiked, mg/L:	500
LCS Recovery, mg/L:	460
LCS % Recovery:	92

Percent Recovery Control Limits:

MS,MSD	75-125
LCS	80-120

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	Client Proj. ID: Shell 2101 Park Blvd.	Received: 06/18/98
1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Lab Proj. ID: 9806C82	Reported: 06/29/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 5 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

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