CAMBRIA

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ENVIRONMENTAL PROTECTION

99 DEC 30 PM 2:57

December 22, 1999

Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Third Quarter 1999 Monitoring Report**
Former Shell Service Station
2101 Park Boulevard
Oakland, California
Incident #97088251
Cambria Project #241-0865-002

Dear Mr. Chan:

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

THIRD QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged the site wells and sampled well S-3. Blaine calculated ground water elevations and compiled the analytical data. Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report and including supporting field documents, is included as Attachment A.

ANTICIPATED FOURTH QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine will gauge all wells, sample well S-3, and tabulate the data Cambria will 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

Alameda County Health Care Services Agency (ACHCSA):. In response to the ACHCSA letter dated August 26, 1999, Cambria is currently evaluating the potential for utilizing the newly developed Oakland RBCA guideliines for this site. In the case that the residual soil and ground water concentrations are less than the site specific target levels, Cambria will proceed with requesting site closure.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Troy A. Buggle
Senior Staff Scientist

Ailsa S. Le May, R.G.
Senior Geologist

Figure: 1 - Ground Water Elevation Contour Map
Table: 1 - Ground Water Analytical Data - Other Constituents
Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869
Frank J. Schlessinger, Schlessinger & Associates, 333 Kearney Street, San Francisco, CA 94108
Steve Makara, Goodyear Tire and Rubber Company, 1144 East Market Street, Akron, Ohio 44316-0001

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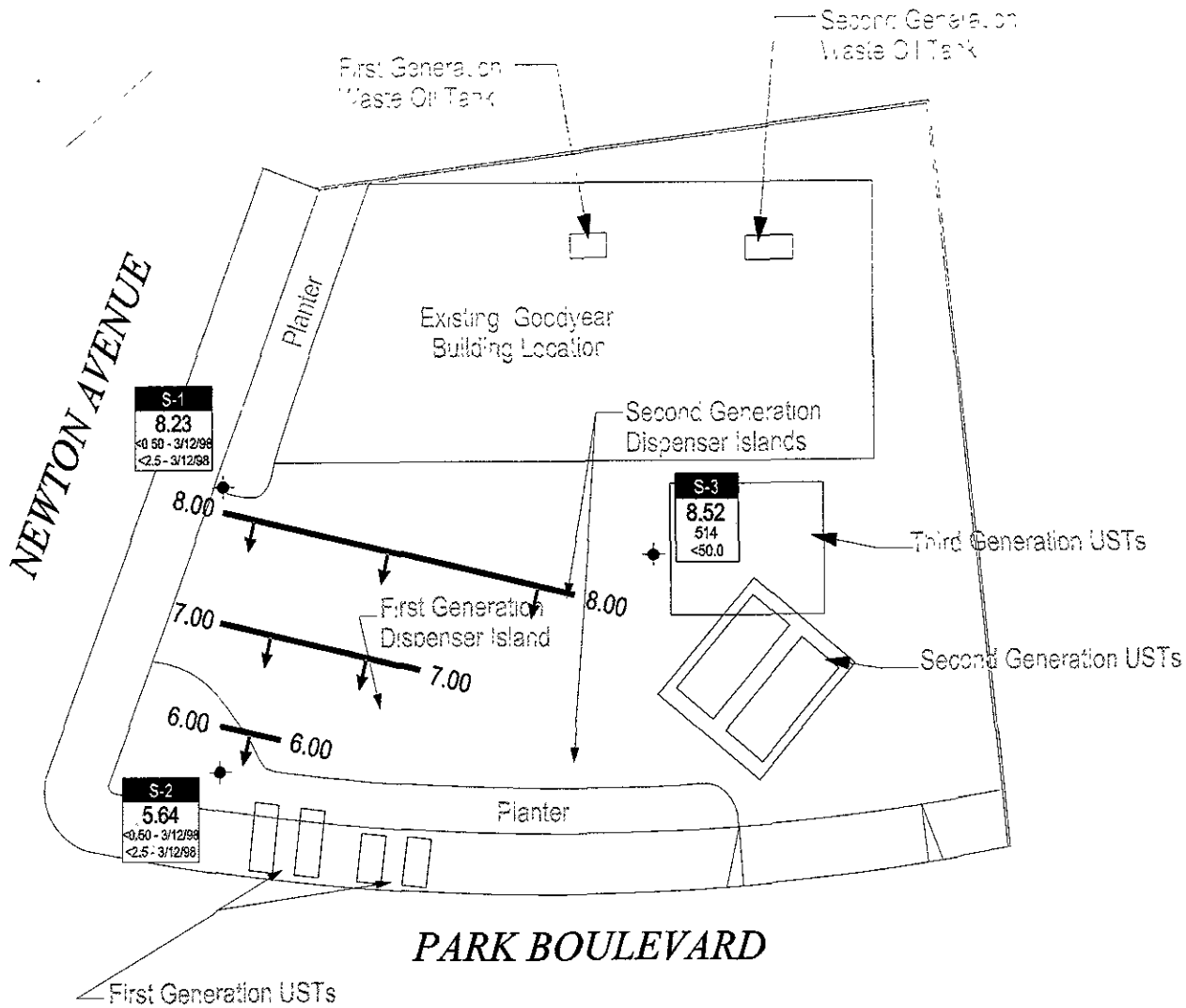

EXPLANATION

- S-1 ✦ Monitoring well location
- → Ground water flow direction
- xx.xx Ground water elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Well designation
- ELEV Ground water elevation (msl)
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020

0 15 30

Scale (ft)

FIGURE

1

Former Shell Service Station
2101 Park Boulevard
Oakland, California
Incident #97088251

CAMBRIA

Ground Water Elevation Contour Map

September 30, 1999

Table 1. **Ground Water Analytical Data - Other Constituents** - Former Shell Service Station, Incident #97088251
2101 Park Boulevard, Oakland, California

Sample ID	Date Sampled	1,2-DCA	EDB	MTBE by 8020	Nitrate	Sulfate	Total Dissolved Solids	D.O.
		← (Concentrations in ppb) →			← (Concentrations in ppm) →			
S-3	09/30/99	<0.500	<0.500	<50.0	1.28	5.60	1,120	1.6

Abbreviations:

1,2-DCA = 1,2-dichloroethane by EPA Method 8010
EDB = Ethylene dibromide (1,2-dibromoethane) by EPA Method 8010
MTBE = Methyl tert-butyl ether by EPA Methods 8020
D.O. = Dissolved oxygen, measured pre-purge
ppb = Parts per billion
ppm = Parts per million

Notes:

Nitrate as nitrate and sulfate as sulfate by EPA Method 300.0
Total dissolved solids by EPA Method 160.1
<n = Below detection limits of n units

ATTACHMENT A

Blaine Ground Water Monitoring Report
and Field Notes

BLAINE
TECH SERVICES inc

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

October 28, 1999

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

Third Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
2101 Park Boulevard
Oakland, CA

Monitoring performed on September 30, 1999

Groundwater Monitoring Report **990930-I-3**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/ek

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheet

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
2101 Park Avenue
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	06/20/1995	160	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	11.93	4.67	7.26	NA	NA
S-1	09/12/1995	<50	250	3.0	<0.5	<0.5	<0.5	NA	NA	11.93	4.19	7.74	NA	NA
S-1	12/28/1995	70	160	1.1	<0.5	<0.5	1.3	NA	NA	11.93	5.30	6.63	NA	NA
S-1	03/25/1996	70	220	<0.5	<0.5	<0.5	<0.5	<2.0	NA	11.93	3.44	8.49	NA	NA
S-1	06/27/1996	<50	140	0.59	<0.50	<0.50	<0.50	<2.5	NA	11.93	3.15	8.78	NA	NA
S-1	09/26/1996	<50	190	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	3.90	8.03	NA	NA
S-1	12/10/1996	<50	84	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	2.46	9.47	NA	NA
S-1	03/10/1997	<50	200	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	2.93	9.00	NA	NA
S-1	06/26/1997	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	3.91	8.02	NA	NA
S-1	09/30/1997	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	4.00	7.93	NA	NA
S-1	12/15/1997	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	2.83	9.10	NA	NA
S-1	03/12/1998	<50	100	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	1.73	10.20	NA	2.7
S-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	NA	11.93	6.05	5.88	NA	0.8
S-1	08/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.61	8.32	NA	1.0
S-1	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	11.93	4.45	7.48	NA	1.0
S-1	03/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	4.17	7.76	NA	1.2
S-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.53	8.40	NA	2.1
S-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.70	8.23	NA	2.3
S-2	06/20/1995	180	NA	1.1	<0.5	<0.5	0.6	NA	NA	12.06	5.80	6.26	NA	NA
S-2	09/12/1995	190	NA	18	<0.5	1.2	0.6	NA	NA	12.06	5.78	6.28	NA	NA
S-2	12/28/1995	200	NA	11	1.0	1.0	4.0	NA	NA	12.06	4.02	8.04	NA	NA
S-2	03/25/1996	180	NA	12	0.8	1.4	1.0	<2.0	NA	12.06	5.56	6.50	NA	NA
S-2	06/27/1996	150	NA	7.7	0.79	0.93	0.5	<2.5	NA	12.06	6.00	6.06	NA	NA
S-2	09/26/1996	83	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.73	6.33	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
2101 Park Avenue
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	12/10/1996	78	NA	1.4	<0.50	0.57	<0.50	<2.5	NA	12.06	4.57	7.49	NA	NA
S-2	03/10/1997	61	NA	1.6	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.38	6.68	NA	NA
S-2 (D)	03/10/1997	77	NA	2.0	<0.50	0.69	<0.50	<2.5	NA	12.06	NA	NA	NA	NA
S-2	06/26/1997	90	NA	1.5	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.68	6.38	NA	NA
S-2 (D)	06/26/1997	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	3.91	8.02	NA	NA
S-2	09/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.75	6.31	NA	NA
S-2 (D)	09/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.75	6.31	NA	NA
S-2	12/15/1997	<50	NA	4.1	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.35	6.71	NA	NA
S-2	03/12/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	4.71	7.35	NA	4.3
S-2	06/08/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	8.41	3.65	NA	2.2
S-2	08/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.23	6.83	NA	1.8
S-2	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.94	6.12	NA	1.4
S-2	03/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.75	6.31	NA	1.8
S-2	06/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.85	6.21	NA	9.7
S-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	6.42	5.64	NA	4.19

S-3	06/20/1995	5500	NA	240	34	120	840	NA	NA	13.54	4.90	8.64	NA	NA
S-3 (D)	06/20/1995	6300	NA	270	37	120	1100	NA	NA	13.54	NA	NA	NA	NA
S-3	09/12/1995	5200	NA	690	14	290	280	NA	NA	13.54	5.37	8.17	NA	NA
S-3 (D)	09/12/1995	4700	NA	620	13	260	240	NA	NA	13.54	NA	NA	NA	NA
S-3	12/28/1995	13000	NA	670	34	960	1400	NA	NA	13.54	3.90	9.64	NA	NA
S-3 (D)	12/28/1995	13000	NA	800	34	1000	1600	NA	NA	13.54	NA	NA	NA	NA
S-3	03/25/1996	7300	NA	560	65	540	820	<200	NA	13.54	4.30	9.24	NA	NA
S-3 (D)	03/25/1996	7400	NA	580	19	620	670	<20	NA	13.54	NA	NA	NA	NA
S-3	06/27/1996	17000	NA	1100	83	1200	2700	<250	NA	13.54	5.00	8.54	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
2101 Park Avenue
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3 (D)	09/26/1996	9800	NA	960	41	450	1300	120	<16 a	13.54	NA	NA	NA	NA
S-3	12/10/1996	6100	NA	470	25	290	640	<100	NA	13.54	3.88	9.66	NA	NA
S-3 (D)	12/10/1996	7700	NA	550	33	380	880	120	NA	13.54	NA	NA	NA	NA
S-3	03/10/1997	7000	NA	720	29	340	620	110	NA	13.54	4.10	9.44	NA	NA
S-3	06/26/1997	11000	NA	1100	63	470	1300	150	NA	13.54	5.23	8.31	NA	NA
S-3 (D)	06/26/1997	12000	NA	1100	62	480	1400	<100	NA	13.54	NA	NA	NA	NA
S-3	09/30/1997	25000	NA	970	170	1200	4600	<50	NA	13.54	5.36	8.18	NA	NA
S-3	09/30/1997	25000	NA	970	170	1200	4600	<50	NA	13.54	5.36	8.18	NA	NA
S-3	12/15/1997	9800	NA	840	55	420	1100	350	NA	13.54	3.81	9.73	NA	NA
S-3 (D)	12/15/1997	9800	NA	850	56	420	1100	360	<20	13.54	NA	NA	NA	NA
S-3	03/12/1998	2800	NA	260	21	140	600	<12	NA	13.54	4.79	8.75	NA	4.8
S-3 (D)	03/12/1998	2100	NA	200	15	110	450	<12	NA	13.54	NA	NA	NA	NA
S-3	06/08/1998	2500	420	220	23	170	600	<20	NA	13.54	5.60	7.94	NA	NA
S-3 (D)	06/08/1998	3200	NA	270	30	220	740	76	NA	13.54	NA	NA	NA	NA
S-3	06/17/1998	NA	NA	NA	NA	NA	NA	NA	NA	13.54	3.49	10.05	NA	NA
S-3	08/26/1998	4000	600	520	56	270	910	<50	NA	13.54	4.89	8.65	NA	1.9
S-3 (D)	08/26/1998	4100	500	550	65	320	1100	<2.5	NA	13.54	NA	NA	NA	NA
S-3	12/24/1998	3700	590	320	32	210	650	55	NA	13.54	4.93	8.61	NA	1.2
S-3	03/29/1999	5400	NA	530	62	400	1100	45	NA	13.54	4.61	8.93	NA	1.5
S-3	06/30/1999	5890	NA	589	83.4	406	1710	<50.0	NA	13.54	3.58	9.96	NA	1.5
S-3	09/30/1999	1930	NA	514	13.2	185	319	<50.0	NA	13.54	5.02	8.52	NA	1.6

WELL CONCENTRATIONS
Shell-branded Service Station
2101 Park Avenue
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)

Abbreviations

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
DO = Dissolved Oxygen
ug/L = parts per billion
msl = Mean sea level
ft = Feet
< n = Below detection limit
(D) = Duplicate sample
NA = Not applicable

Note

(a) = The MTBE was analyzed by EPA method 8260 one day past hold time. The MTBE value did not confirm therefore, all MTBE results at this site should be considered estimated.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

October 18, 1999

Leah Davis
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: Equiva 2101 Park Blvd. Oakland/M910026

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on October 1, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

ANALYTICAL REPORT FOR M910026

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-3	M910026-01	Water	9/30/99

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received:	10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	10/18/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
S-3			**M910026-01**				**Water**	
Purgeable Hydrocarbons	9100346	10/12/99	10/12/99		1000	**1930**	ug/l	1
Benzene	"	"	"		10.0	**514**	"	
Toluene	"	"	"		10.0	**13.2**	"	
Ethylbenzene	"	"	"		10.0	**185**	"	
Xylenes (total)	"	"	"		10.0	**319**	"	
Methyl tert-butyl ether	"	"	"		50.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*106*	%	

Sequoia Analytical

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Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Volatile Organic Compounds by EPA Method 8010B
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
S-3			**M910026-01**				**Water**	
1,2-Dibromoethane	9090856	10/7/99	10/7/99		0.500	ND	ug/l	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	*70.0-130*		*112*	*%*	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
S-3			**M910026-01**				**Water**	
Total Dissolved Solids	9100151	10/5/99	10/5/99	EPA 160.1	10.0	**1120**	mg/l	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Anions by EPA Method 300.0
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
S-3			**M910026-01**				**Water**	
Nitrate as N	9100066	10/1/99	10/1/99	EPA 300.0	0.226	**1.28**	mg/l	
Sulfate as SO4	"	"	"	EPA 300.0	5.00	**5.60**	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100346	**Date Prepared: 10/12/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100346-BLK1**									
Purgeable Hydrocarbons	10/12/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.5*	"	*70.0-130*	*105*			
LCS	**9100346-BS1**									
Purgeable Hydrocarbons	10/12/99	250		235	ug/l	70.0-130	94.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.59*	"	*70.0-130*	*85.9*			
Matrix Spike	**9100346-MS1**		**M910040-12**							
Purgeable Hydrocarbons	10/12/99	250	ND	222	ug/l	60.0-140	**88.8**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.90*	"	*70.0-130*	*79.0*			
Matrix Spike Dup	**9100346-MSD1**		**M910040-12**							
Purgeable Hydrocarbons	10/12/99	250	ND	229	ug/l	60.0-140	**91.6**	25.0	**3.10**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.67*	"	*70.0-130*	*86.7*			

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9090856	**Date Prepared: 10/1/99**				**Extraction Method: EPA 5030B [P/T]**					
Blank	**9090856-BLK1**									
1,2-Dibromoethane	10/7/99			**ND**	ug/l	**0.500**				
Bromodichloromethane	"			**ND**	"	**0.500**				
Bromoform	"			**ND**	"	**0.500**				
Bromomethane	"			**ND**	"	**1.00**				
Carbon tetrachloride	"			**ND**	"	**0.500**				
Chlorobenzene	"			**ND**	"	**0.500**				
Chloroethane	"			**ND**	"	**1.00**				
Chloroform	"			**ND**	"	**0.500**				
Chloromethane	"			**ND**	"	**1.00**				
Dibromochloromethane	"			**ND**	"	**0.500**				
1,3-Dichlorobenzene	"			**ND**	"	**0.500**				
1,4-Dichlorobenzene	"			**ND**	"	**0.500**				
1,2-Dichlorobenzene	"			**ND**	"	**0.500**				
1,1-Dichloroethane	"			**ND**	"	**0.500**				
1,2-Dichloroethane	"			**ND**	"	**0.500**				
1,1-Dichloroethene	"			**ND**	"	**0.500**				
cis-1,2-Dichloroethene	"			**ND**	"	**0.500**				
trans-1,2-Dichloroethene	"			**ND**	"	**0.500**				
1,2-Dichloropropane	"			**ND**	"	**0.500**				
cis-1,3-Dichloropropene	"			**ND**	"	**0.500**				
trans-1,3-Dichloropropene	"			**ND**	"	**0.500**				
Methylene chloride	"			**ND**	"	**5.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**0.500**				
Tetrachloroethene	"			**ND**	"	**0.500**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichlorotrifluoroethane	"			**ND**	"	**1.00**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
Vinyl chloride	"			**ND**	"	**0.500**				
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*9.55*	"	*70.0-130*	*95.5*			
Blank	**9090856-BLK2**									
Bromodichloromethane	10/8/99			ND	ug/l	0.500				
Bromoform	"			ND	"	0.500				
Bromomethane	"			ND	"	1.00				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	1.00				
Chloroform	"			ND	"	0.500				

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**9090856-BLK2**									
Chloromethane	10/8/99			**ND**	ug/l	**1.00**				
Dibromochloromethane	"			**ND**	"	**0.500**				
1,3-Dichlorobenzene	"			**ND**	"	**0.500**				
1,4-Dichlorobenzene	"			**ND**	"	**0.500**				
1,2-Dichlorobenzene	"			**ND**	"	**0.500**				
1,1-Dichloroethane	"			**ND**	"	**0.500**				
1,2-Dichloroethane	"			**ND**	"	**0.500**				
1,1-Dichloroethene	"			**ND**	"	**0.500**				
cis-1,2-Dichloroethene	"			**ND**	"	**0.500**				
trans-1,2-Dichloroethene	"			**ND**	"	**0.500**				
1,2-Dichloropropane	"			**ND**	"	**0.500**				
cis-1,3-Dichloropropene	"			**ND**	"	**0.500**				
trans-1,3-Dichloropropene	"			**ND**	"	**0.500**				
Methylene chloride	"			**ND**	"	**5.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**0.500**				
Tetrachloroethene	"			**ND**	"	**0.500**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichlorotrifluoroethane	"			**ND**	"	**1.00**				
Trichloroethene	10/1/99			**ND**	"	**0.500**				
Trichlorofluoromethane	10/8/99			**ND**	"	**0.500**				
Vinyl chloride	"			**ND**	"	**0.500**				
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*8.76*	"	*70.0-130*	*87.6*			
Blank	**9090856-BLK3**									
Bromodichloromethane	10/11/99			**ND**	ug/l	**0.500**				
Bromoform	"			**ND**	"	**0.500**				
Bromomethane	"			**ND**	"	**1.00**				
Carbon tetrachloride	"			**ND**	"	**0.500**				
Chlorobenzene	"			**ND**	"	**0.500**				
Chloroethane	"			**ND**	"	**1.00**				
Chloroform	"			**ND**	"	**0.500**				
Chloromethane	"			**ND**	"	**1.00**				
Dibromochloromethane	"			ND	"	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**9090856-BLK3**									
trans-1,2-Dichloroethene	10/11/99			**ND**	ug/l	**0.500**				
1,2-Dichloropropane	"			**ND**	"	**0.500**				
cis-1,3-Dichloropropene	"			**ND**	"	**0.500**				
trans-1,3-Dichloropropene	"			**ND**	"	**0.500**				
Methylene chloride	"			**ND**	"	**5.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**0.500**				
Tetrachloroethene	"			**ND**	"	**0.500**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichlorotrifluoroethane	"			**ND**	"	**1.00**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
Vinyl chloride	"			**ND**	"	**0.500**				
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*8.91*	"	*70.0-130*	*89.1*			
LCS	**9090856-BS1**									
Chlorobenzene	10/7/99	25.0		23.1	ug/l	70.0-130	92.4			
1,1-Dichloroethene	"	25.0		21.1	"	65.0-135	84.4			
Trichloroethene	"	25.0		23.9	"	70.0-130	95.6			
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*11.6*	"	*70.0-130*	*116*			
LCS	**9090856-BS2**									
Chlorobenzene	10/8/99	25.0		18.5	ug/l	70.0-130	74.0			
1,1-Dichloroethene	"	25.0		18.6	"	65.0-135	74.4			
Trichloroethene	"	25.0		21.7	"	70.0-130	86.8			
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*7.91*	"	*70.0-130*	*79.1*			
LCS	**9090856-BS3**									
Chlorobenzene	10/11/99	25.0		19.6	ug/l	70.0-130	78.4			
1,1-Dichloroethene	"	25.0		17.1	"	65.0-135	68.4			
Trichloroethene	"	25.0		21.0	"	70.0-130	84.0			
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*10.2*	"	*70.0-130*	*102*			
Matrix Spike	9090856-MS1		M910026-01							
Chlorobenzene	10/7/99	25.0	ND	19.5	ug/l	60.0-140	78.0			
1,1-Dichloroethene	"	25.0	ND	17.3	"	60.0-140	69.2			
Trichloroethene	"	25.0	ND	20.5	"	60.0-140	82.0			
Matrix Spike	9090856-MS2		M910157-03							
Chlorobenzene	10/11/99	25.0	ND	21.5	ug/l	60.0-140	86.0			
1,1-Dichloroethene	"	25.0	ND	20.3	"	60.0-140	81.2			

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**9090856-MS2**		**M910157-03**							
Trichloroethene	10/11/99	25.0	ND	23.1	ug/l	60.0-140	**92.4**			
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*11.5*	"	*70.0-130*	*115*			
Matrix Spike Dup	**9090856-MSD1**		**M910026-01**							
Chlorobenzene	10/7/99	25.0	ND	18.0	ug/l	60.0-140	**72.0**	25.0	**8.00**	
1,1-Dichloroethene	"	25.0	ND	18.4	"	60.0-140	**73.6**	25.0	**6.16**	
Trichloroethene	"	25.0	ND	21.1	"	60.0-140	**84.4**	25.0	**2.88**	
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*8.52*	"	*70.0-130*	*85.2*			
Matrix Spike Dup	**9090856-MSD2**		**M910157-03**							
Chlorobenzene	10/11/99	25.0	ND	21.5	ug/l	60.0-140	**86.0**	25.0	**0**	
1,1-Dichloroethene	"	25.0	ND	20.1	"	60.0-140	**80.4**	25.0	**0.990**	
Trichloroethene	"	25.0	ND	22.9	"	60.0-140	**91.6**	25.0	**0.870**	
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*10.7*	"	*70.0-130*	*107*			

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100151	**Date Prepared: 10/5/99**					**Extraction Method: General Preparation**				
Blank	**9100151-BLK1**									
Total Dissolved Solids	10/5/99			**ND**	mg/l	**10.0**				
LCS	**9100151-BS1**									
Total Dissolved Solids	10/5/99	500		525	mg/l	80.0-120	105			
Matrix Spike	**9100151-MS1**		**M909ACI-01**							
Total Dissolved Solids	10/5/99	500	484	944	mg/l	80.0-120	**92.0**			
Matrix Spike Dup	**9100151-MSD1**		**M909ACI-01**							
Total Dissolved Solids	10/5/99	500	484	976	mg/l	80.0-120	**98.4**	20.0	**6.72**	

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 10/18/99

Anions by EPA Method 300.0/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100066	**Date Prepared: 10/1/99**					**Extraction Method: General Preparation**				
Blank	**9100066-BLK1**									
Nitrate as N	10/1/99			**ND**	mg/l	**0.226**				
Sulfate as SO4	"			**ND**	"	**0.500**				
LCS	**9100066-BS1**									
Nitrate as N	10/1/99	2.26		2.18	mg/l	80.0-120	96.5			
Sulfate as SO4	"	10.0		9.75	"	80.0-120	97.5			
Matrix Spike	**9100066-MS1**		**M909ABL-01**							
Nitrate as N	10/1/99	22.6	1.22	22.1	mg/l	75.0-125	**92.4**			
Sulfate as SO4	"	100	ND	99.3	"	75.0-125	**99.3**			
Matrix Spike Dup	**9100066-MSD1**		**M909ABL-01**							
Nitrate as N	10/1/99	22.6	1.22	22.0	mg/l	75.0-125	**91.9**	20.0	**0.543**	
Sulfate as SO4	"	100	ND	97.2	"	75.0-125	**97.2**	20.0	**2.14**	

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	9/30/99
1680 Rogers Avenue	Project Number:	2101 Park Blvd.	Received:	10/1/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	10/18/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

BLAINE
TECH SERVICES INC

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

CHAIN OF CUSTODY 990930-I3

CLIENT Equiva - Karen Petryna

SITE 2101 Park Blvd.
Oakland, CA

LAB SEQUOIA   DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva   M910024

Incident # 97088251

Send report to Blaine Tech Services
Attn: Ann Pember

CONDUCT ANALYSIS TO DETECT:

SAMPLE I.D.			MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	~~MTBE by 8260~~ nitrate	~~TPH diesel~~ sulfate	~~Oxygenates by 8260~~ TDS	1,2-DCA & EDB by 8010	~~Alkalinity~~ ferrous iron		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
S-3	9-30	1636	W	5			X	X	X	X	X		X					

SAMPLING COMPLETED: DATE 9-30-99 TIME 1636

SAMPLING PERFORMED BY Patrick Flaherty

RESULTS NEEDED NO LATER THAN

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Patrick Flaherty	10/1/99	9:04	[signature]	10/1	9:04

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 990930-J3 Date 9-30-99 Client EQuiva

Site 2101 PARK, OAKLAND

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	D.O.
S-1	2					3.70	16.45		2.3
S-2	2					6.42	17.63		4.9
S-3	2					5.02	16.52		1.6

SHELL WELL MONITORING DATA SHEET

Project #: 990930-I3	WIC #: 204-5508-1206
Sampler: P.F.	Date: 9-30-99
Well I.D.: S-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 16.52	Depth to Water: 5.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: (Bailer) / Extraction Port / Other: _____

_____ X _____ = _____ Gals.
1 Case Volume (Gals.) Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1636	80.1	6.6	1430	7200	—	
				Ferrous	Iron - 1.9	
				Alkalinity	- 1134	mg/L
					ORP 95	

Did well dewater? Yes No		Gallons actually evacuated: 0	
Sampling Time: 1636		Sampling Date: 9-30-99	
Sample I.D.: S-3		Laboratory: (Sequoia) Crosby	
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D		Other: Nitrate, Sulfate, TDS	
Equipment Blank I.D.: @ Time		Duplicate I.D.:	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd): Pre-purge:	1.6 mg/L	Post-purge:	mg/L