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C A M B R I A

ST10 229

May 7, 2001

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

Re: **First Quarter 2001 Monitoring Report**  
Former Shell Service Station  
2101 Park Boulevard  
Oakland, California  
Incident #97088251  
Cambria Project #243-0865-002

MAY 10 2001



Dear Mr. Chan:

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

**FIRST QUARTER 2001 ACTIVITIES**

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged the site wells, sampled well S-3, calculated groundwater elevations, and compiled the hydrocarbon analytical data. Cambria compiled the bioattenuation and other constituents data (Table 1) and prepared a groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

**Subsurface Investigation:** Cambria performed additional subsurface investigation on October 29, 2000. The results were issued in our March 12, 2001 *Subsurface Investigation Report and Request for Closure*. Based on these results and in conjunction with the previously prepared RBCA analysis, Cambria requested case closure for this site.

Oakland, CA  
San Ramon, CA  
Sonoma, CA

**ANTICIPATED SECOND QUARTER 2001 ACTIVITIES**

**Groundwater Monitoring:** Blaine will gauge all wells, sample well S-3, and tabulate the data. Cambria will prepare a monitoring report.

Cambria  
Environmental  
Technology, Inc.

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


*Request for Case Closure:* Case closure was requested in our March 12, 2001 *Subsurface Investigation Report and Request for Closure*. Please contact Cambria if we can provide any assistance during your closure evaluation..

**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.



Sincerely,  
**Cambria Environmental Technology, Inc**

  
Stephan A. Bork, C.E.G., C.HG.  
Associate Hydrogeologist

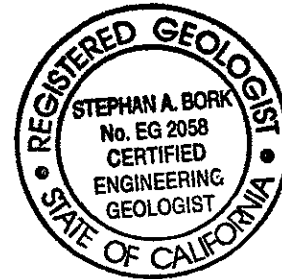


Figure: 1 - Groundwater Elevation Contour Map

Table: 1 - Groundwater Analytical Data - Other Constituents

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

- cc. Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
- Frank J. Schlessinger, Schlessinger & Associates, 333 Kearney Street, San Francisco, CA 94108
- Alice S Heilman, 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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**Table 1. Groundwater 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 8260	(Concentrations in ppb)					DO (ppm)	ORP (mV)
					Nitrate	Sulfate	Total Dissolved Solids	Ferrous Iron	Alkalinity		
S-3	09/30/99	<0.500	<0.500	<50.0	1,280	5,600	1,120,000	1,900	1,134,000	1.6	95
	12/29/99	---	---	<62.5	<1,000	5940	1,050,000	11,550	1,400	2.1	-159
	03/07/00	---	---	---	<1,000	7,640	940,000	1,900	204,000	0.88	-92
	06/01/00	---	---	---	<226	7,510	998,000	1,900	1,530,000	1.8	-135
	09/28/00	---	---	2.53	<1,000	2,030	972,000	2,000	1,155,000	1.4	-95
	12/11/00	---	---	<5.00	<226	6,760	970,000	2,000	1,540,000	2.0	154
	03/27/01	---	---	3.44	<500	<5,000	908,000	3,000	770,000	1.5	150

**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 Method 8020  
 DO = Dissolved oxygen, measured pre-purge  
 ORP = Oxidation reduction potential  
 ppb = Parts per billion  
 ppm = Parts per million  
 mV = Millivolts

**Notes:**

Nitrate as nitrate and sulfate as sulfate by EPA Method 300.0  
 Total dissolved solids by EPA Method 160.1  
 --- = Not analyzed / not available  
 DO, ORP, ferrous iron, and alkalinity measured in the field  
 <n = Below detection limits of n units

**ATTACHMENT A**  
**Blaine Groundwater Monitoring Report**  
**and Field Notes**

**BLAINE**  
TECH SERVICES, INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

April 16, 2001

Karen Petryna  
Equiva Services LLC  
P O Box 7869  
Burbank, CA 91510-7869

First Quarter 2001 Groundwater Monitoring at  
Former Shell-branded Service Station  
2101 Park Boulevard  
Oakland, CA

Monitoring performed on March 27, 2001

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### Groundwater Monitoring Report 010327-G-2

This report covers the routine monitoring of groundwater wells at this Former 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,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", followed by a long horizontal line extending to the right.

Deidre Kerwin  
Operations Manager

DK/jt

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

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

**WELL CONCENTRATIONS**  
**Former Shell Service Station**  
**2101 Park Boulevard**  
**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)
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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-1	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.92	8.01	NA	2.1
S-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	11.93	2.16	9.77	NA	0.47
S-1	06/01/2000	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.38	8.55	NA	1.1
S-1	09/28/2000	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.82	8.11	NA	1.7
S-1	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.62	8.31	NA	1.5
S-1	03/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.00	8.93	NA	1.3

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
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**WELL CONCENTRATIONS**  
**Former Shell Service Station**  
**2101 Park Boulevard**  
**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	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
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	4.9
S-2	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.74	6.32	NA	2.5
S-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.42	6.64	NA	6.4
S-2	06/01/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.91	6.15	NA	2.1
S-2	09/28/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	6.11	5.95	NA	5.3
S-2	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.70	6.36	NA	2.0
S-2	03/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.18	6.88	NA	3.0



**WELL CONCENTRATIONS**  
**Former Shell Service Station**  
**2101 Park Boulevard**  
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**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	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
S-3 (D)	06/27/1996	1903	NA	13	1.0	14	34	7.2	NA	13.54	NA	NA	NA	NA
S-3	09/26/1996	8900	NA	920	43	400	1100	<125	NA	13.54	5.23	8.31	NA	NA
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

**WELL CONCENTRATIONS**  
**Former Shell Service Station**  
**2101 Park Boulevard**  
**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	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	9.98	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
S-3	12/29/1999	4500	NA	483	23.9	324	572	<62.5	NA	13.54	5.32	8.22	NA	2.1
S-3	03/07/2000	1940	NA	346	10.5	65.1	74.8	<50.0	NA	13.54	6.72	6.82	NA	0.88
S-3	06/01/2000	5200	NA	714	33.6	325	551	<50.0	NA	13.54	5.40	8.14	NA	1.8
S-3	09/28/2000	2690	NA	527	20.6	153	141	165	2.53	13.54	5.55	7.99	NA	1.4
S-3	12/11/2000	2300	NA	483	13.4	72.8	64.4	183	<5.00	13.54	5.20	8.34	NA	2.0
S-3	03/27/2001	2060	NA	341	7.56	36.5	83.2	16.7	3.44	13.54	4.58	8.96	NA	1.5

**WELL CONCENTRATIONS**  
**Former Shell Service Station**  
**2101 Park Boulevard**  
**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)
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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

ppm = parts per million

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**

1455 McDowell Blvd. North, Ste. D  
Petaluma, CA 94954  
(707) 792-1865  
FAX (707) 792-0342  
[www.sequoialabs.com](http://www.sequoialabs.com)

April 10 , 2001

Nick Sudano  
Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
RE: Equiva / P104034

Enclosed are the results of analyses for samples received by the laboratory on 03/28/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari  
Client Services Representative

CA ELAP Certificate Number 2374



Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose CA, 95112

Project: Equiva  
Project Number: 2101 Park Blvd., Oakland  
Project Manager: Nick Sudano

**Reported:**  
04/10/01 16:02

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-3	P104034-01	Water	03/27/01 17:08	03/28/01 09:30



Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose CA, 95112

Project: Equiva  
Project Number: 2101 Park Blvd., Oakland  
Project Manager: Nick Sudano

Reported:  
04/10/01 16:02

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P104034-01) Water Sampled: 03/27/01 17:08 Received: 03/28/01 09:30									
Gasoline	2060	250	ug/l	5	1030698	04/03/01	04/03/01	EPA 8015M/8020M	
Benzene	341	2.50	"	"	"	"	"	"	
Toluene	7.56	2.50	"	"	"	"	"	"	
Ethylbenzene	36.5	2.50	"	"	"	"	"	"	
Xylenes (total)	83.2	2.50	"	"	"	"	"	"	
Methyl tert-butyl ether	16.7 ✓	12.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.0 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		65-135	"	"	"	"	



Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose CA, 95112	Project: Equiva Project Number: 2101 Park Blvd., Oakland Project Manager: Nick Sudano	Reported: 04/10/01 16:02
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**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P104034-01) Water Sampled: 03/27/01 17:08 Received: 03/28/01 09:30									
Methyl tert-butyl ether	3.44	0.500	ug/l	1	1040035	04/03/01	04/03/01	EPA 8260B	
Surrogate: Dibromofluoromethane		104 %	88-118		"	"	"	"	



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San Jose CA, 95112

Project: Equiva  
Project Number: 2101 Park Blvd., Oakland  
Project Manager: Nick Sudano

Reported:  
04/10/01 16:02

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-3 (P104034-01) Water</b> Sampled: 03/27/01 17:08 Received: 03/28/01 09:30									
<b>Total Dissolved Solids</b>	<b>908000</b>	10000	ug/l	1	1D03033	04/03/01	04/09/01	EPA 160.1	

908 ppm

CS  
10/1





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose CA, 95112	Project: Equiva Project Number: 2101 Park Blvd., Oakland Project Manager: Nick Sudano	Reported: 04/10/01 16:02
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**Anions by EPA Method 300.0  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>S-3 (P104034-01) Water    Sampled: 03/27/01 17:08    Received: 03/28/01 09:30</b>										
Nitrate as N	ND	500		ug/l	10	1D03023	03/29/01	03/29/01	EPA 300.0	
Sulfate as SO4	ND	5000		"	"	"	"	"	"	





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 San Jose CA, 95112

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 Project Manager: Nick Sudano

Reported:  
 04/10/01 16:02

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1030698 - EPA 5030, waters**

**Blank (1030698-BLK3)**

Prepared & Analyzed: 04/03/01

Gasoline	ND	50.0	ug/l							
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	291		"	300		97.0	65-135			
Surrogate: 4-Bromofluorobenzene	298		"	300		99.3	65-135			

**LCS (1030698-BS3)**

Prepared & Analyzed: 04/03/01

Gasoline	2670	50.0	ug/l	2750		97.1	65-135			
Benzene	42.1	0.500	"	32.0		132	65-135			
Toluene	199	0.500	"	193		103	65-135			
Ethylbenzene	44.5	0.500	"	46.0		96.7	65-135			
Xylenes (total)	243	0.500	"	231		105	65-135			
Methyl tert-butyl ether	69.8	2.50	"	52.0		134	65-135			
Surrogate: a,a,a-Trifluorotoluene	306		"	300		102	65-135			
Surrogate: 4-Bromofluorobenzene	318		"	300		106	65-135			

**Matrix Spike (1030698-MS1)**

Source: P103646-01

Prepared & Analyzed: 03/30/01

Gasoline	2850	50.0	ug/l	2750	ND	104	65-135			
Benzene	34.5	0.500	"	32.0	ND	108	65-135			
Toluene	208	0.500	"	193	ND	108	65-135			
Ethylbenzene	46.4	0.500	"	46.0	ND	101	65-135			
Xylenes (total)	252	0.500	"	231	ND	109	65-135			
Methyl tert-butyl ether	82.7	2.50	"	52.0	25.6	110	65-135			
Surrogate: a,a,a-Trifluorotoluene	299		"	300		99.7	65-135			
Surrogate: 4-Bromofluorobenzene	318		"	300		106	65-135			



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Project: Equiva  
Project Number: 2101 Park Blvd., Oakland  
Project Manager: Nick Sudano

Reported:  
04/10/01 16:02

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1030698 - EPA 5030, waters**

**Matrix Spike Dup (1030698-MSD1)**

Source: P103646-01

Prepared & Analyzed: 03/30/01

Gasoline	2810	50.0	ug/l	2750	ND	102	65-135	1.41	20	
Benzene	36.5	0.500	"	32.0	ND	114	65-135	5.63	20	
Toluene	216	0.500	"	193	ND	112	65-135	3.77	20	
Ethylbenzene	48.3	0.500	"	46.0	ND	105	65-135	4.01	20	
Xylenes (total)	261	0.500	"	231	ND	113	65-135	3.51	20	
Methyl tert-butyl ether	80.3	2.50	"	52.0	25.6	105	65-135	2.94	20	
Surrogate: a,a,a-Trifluorotoluene	309		"	300		103	65-135			
Surrogate: 4-Bromofluorobenzene	313		"	300		104	65-135			



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Reported:  
04/10/01 16:02

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1040035 - EPA 5030 waters</b>										
<b>Blank (1040035-BLK1)</b> Prepared & Analyzed: 04/03/01										
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	5.06		"	5.00		101	88-118			
<b>Blank (1040035-BLK2)</b> Prepared & Analyzed: 04/03/01										
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	5.03		"	5.00		101	88-118			
<b>LCS (1040035-BS1)</b> Prepared & Analyzed: 04/03/01										
Methyl tert-butyl ether	4.67	0.500	ug/l	5.00		93.4	79-118			
Surrogate: Dibromofluoromethane	4.89		"	5.00		97.8	88-118			
<b>LCS (1040035-BS2)</b> Prepared & Analyzed: 04/03/01										
Methyl tert-butyl ether	5.12	0.500	ug/l	5.00		102	79-118			
Surrogate: Dibromofluoromethane	5.09		"	5.00		102	88-118			
<b>Matrix Spike (1040035-MS1)</b> Source: P103675-01 Prepared & Analyzed: 04/03/01										
Methyl tert-butyl ether	5.10	0.500	ug/l	5.00	ND	102	79-118			
Surrogate: Dibromofluoromethane	5.24		"	5.00		105	88-118			
<b>Matrix Spike Dup (1040035-MSD1)</b> Source: P103675-01 Prepared & Analyzed: 04/03/01										
Methyl tert-butyl ether	4.81	0.500	ug/l	5.00	ND	96.2	79-118	5.85	20	
Surrogate: Dibromofluoromethane	5.05		"	5.00		101	88-118			



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Reported:  
04/10/01 16:02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1D03033 - General Preparation</b>									
<b>Blank (1D03033-BLK1)</b>					Prepared: 04/03/01 Analyzed: 04/09/01				
Total Dissolved Solids	ND	10000	ug/l						
<b>LCS (1D03033-BS1)</b>					Prepared: 04/03/01 Analyzed: 04/09/01				
Total Dissolved Solids	553000	10000	ug/l	500000	908000	111	80-120		
<b>Matrix Spike (1D03033-MS1)</b>					Source: P104034-01 Prepared: 04/03/01 Analyzed: 04/09/01				
Total Dissolved Solids	1500000	20000	ug/l	500000	908000	118	80-120		
<b>Matrix Spike Dup (1D03033-MSD1)</b>					Source: P104034-01 Prepared: 04/03/01 Analyzed: 04/09/01				
Total Dissolved Solids	1510000	20000	ug/l	500000	908000	120	80-120	0.664	20



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Reported:  
04/10/01 16:02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D03023 - General Preparation**

**Blank (1D03023-BLK1)**

Prepared & Analyzed: 03/29/01

Nitrate as N	ND	50.0	ug/l							
Sulfate as SO4	ND	500	"							

**LCS (1D03023-BS1)**

Prepared & Analyzed: 03/29/01

Nitrate as N	2070	50.0	ug/l	2260		91.6	90-110			
Sulfate as SO4	9390	500	"	10000		93.9	90-110			

**Matrix Spike (1D03023-MS1)**

Source: MKC0571-05

Prepared & Analyzed: 03/29/01

Nitrate as N	21300	500	ug/l	22600	ND	92.3	80-120			
Sulfate as SO4	119000	5000	"	100000	25200	93.8	80-120			

**Matrix Spike Dup (1D03023-MSD1)**

Source: MKC0571-05

Prepared & Analyzed: 03/29/01

Nitrate as N	21300	500	ug/l	22600	ND	92.3	80-120	0	20	
Sulfate as SO4	119000	5000	"	100000	25200	93.8	80-120	0	20	



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Project: Equiva  
Project Number: 2101 Park Blvd., Oakland  
Project Manager: Nick Sudano

Reported:  
04/10/01 16:02

### Notes and Definitions

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  
RPD Relative Percent Difference







## WELL GAUGING DATA

Project # 010327-G2 Date 3/27/01 Client Equiva 204-5508-1

Site 2101 Park Blvd., Oakland, CA

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. mg/L
S-1	2					3.00	15.95	↓	1.3
S-2	2	Gauged w/ ORCs in well.				5.18	17.20		3.0
S-3	2	Removed ORC's to gauge.				4.58	15.19		1.5

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010327-62</u>	Site: <u>204-5508-1206</u>
Sampler: <u>MB</u>	Date: <u>3/27/01</u>
Well I.D.: <u>S-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>15.19</u>	Depth to Water: <u>4.58</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method:

- |                      |                 |
|----------------------|-----------------|
| Bailer               | Watera          |
| Disposable Bailer    | Peristaltic     |
| Middleburg           | Extraction Pump |
| Electric Submersible | Other _____     |

Sampling Method:

- |   |
|---|
| <input checked="" type="checkbox"/> Bailer            |
| <input checked="" type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Extraction Port              |
| <input type="checkbox"/> Dedicated Tubing             |

Other: \_\_\_\_\_

_____ (Gals.) X _____	<u>X</u> <u>No Purge Site</u>	_____ Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1711</u>	<u>65.3</u>	<u>6.9</u>	<u>1570</u>	<u>&gt;200</u>	—	<u>Cloudy</u>
		<u>Alkalinity = 770 mg/L</u>		<u>Fe<sup>2+</sup> = 3.0 mg/L</u>		

Did well dewater? Yes  No  Gallons actually evacuated: —

Sampling Time: 1708 Sampling Date: 3/27/01

Sample I.D.: S-3 Laboratory: (Sequoia) Columbia Other \_\_\_\_\_

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: Nitrate, Sulfate, TDS

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other \_\_\_\_\_

D.O. (if req'd): Pre-purge: 1.5 mg/L Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd): Pre-purge: 150 mV Post-purge: \_\_\_\_\_ mV



**EXPLANATION**

- S-1 ● Monitoring well location (Enviros - 06/15/95)
- S-S ● Soil boring location (Enviros - 05/16/95)
- EB-1 ● Soil boring location (09/29/00)
- Groundwater flow direction
- 8.00 Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene	Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260
MTBE	

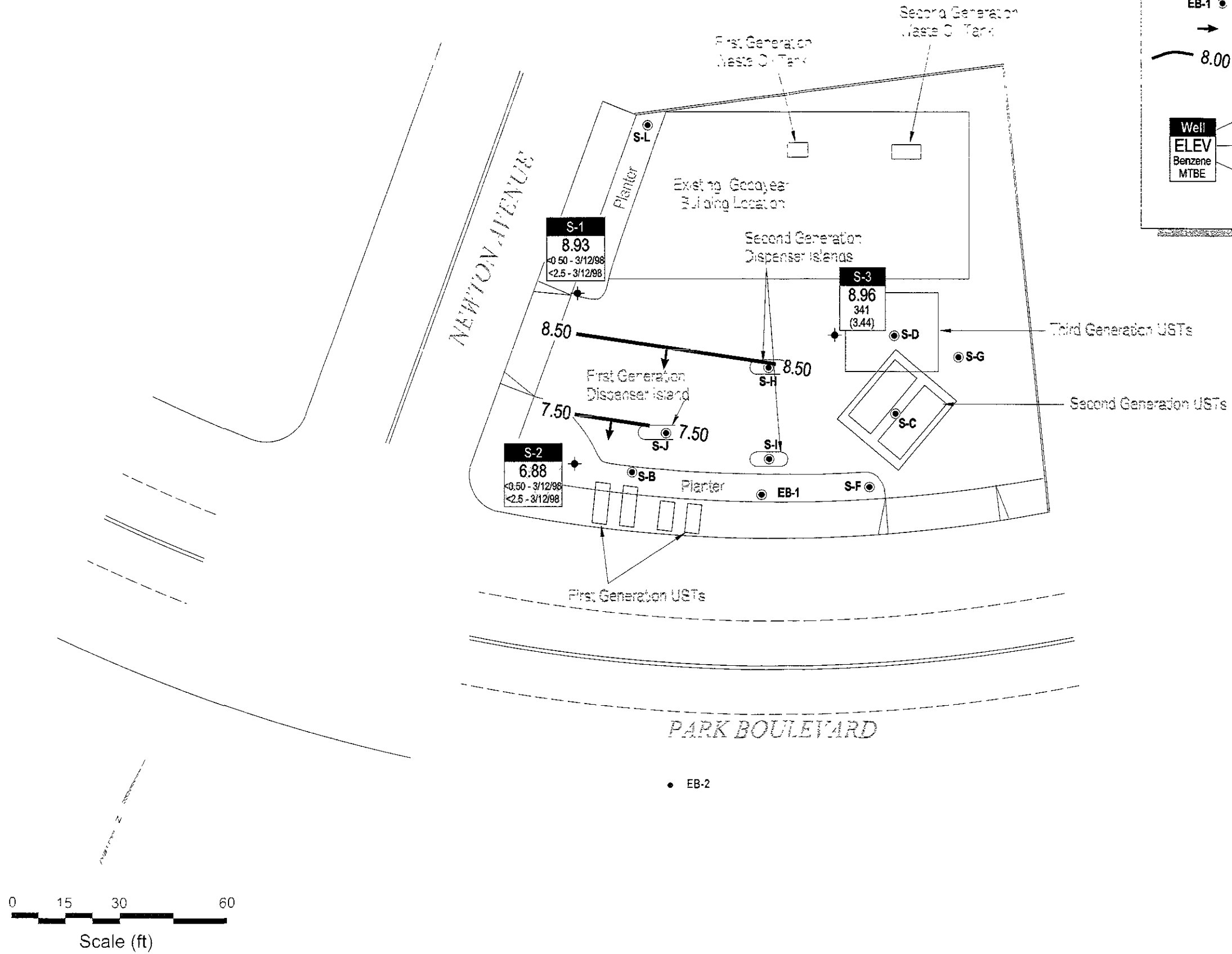


FIGURE  
**2**