

March 15, 2001

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

Re: **Fourth Quarter 2000 Monitoring Report**  
 Former Shell Service Station  
 2101 Park Boulevard  
 Oakland, California  
 Incident #97088251  
 Cambria Project #243-0865-002



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.

#### **FOURTH QUARTER 2000 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 has requested case closure for this site.

Oakland, CA  
 San Ramon, CA  
 Sonoma, CA  
 Portland, OR

#### **ANTICIPATED FIRST 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  
 Te (510) 420-3700  
 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 Troy Buggle at (510) 420-3333 if you have any questions or comments.



Sincerely,  
**Cambria Environmental Technology, Inc**

  
Troy A. Buggle  
Senior Staff Scientist

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

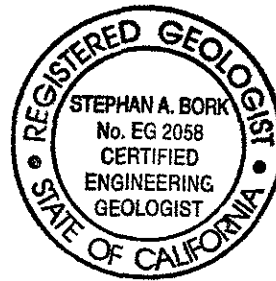


Figure: 1 - Groundwater Elevation Contour Map

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

**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	Total Dissolved Solids (Concentrations in ppb)							DO (ppm)	ORP (mV)
					Nitrate	Sulfate	Ferrous Iron	Alkalinity	DO	ORP			
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		
	<b>12/11/00</b>	---	---	<b>&lt;5.00</b>	<b>&lt;226</b>	<b>6,760</b>	<b>970,000</b>	<b>2,000</b>	<b>1,540,000</b>	<b>2.0</b>	<b>154</b>		

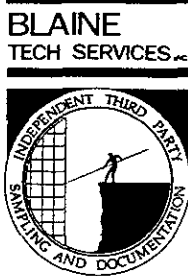
**Abbreviations:**

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**



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

January 19, 2001

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

Fourth Quarter 2000 Groundwater Monitoring at  
Former Shell-branded Service Station  
2101 Park Boulevard  
Oakland, CA

Monitoring performed on December 11, 2000

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### Groundwater Monitoring Report 001211-S-3

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.

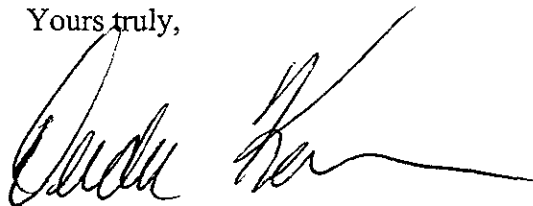
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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', with a long horizontal flourish 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)
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

**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	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
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



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S-2	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.70	6.36	NA	2.0
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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

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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
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

**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

---

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308  
[www.sequoialabs.com](http://www.sequoialabs.com)

3 January, 2001

Nick Sudano  
Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: 2101 Park Blvd.  
Sequoia Report: MJL0407

Enclosed are the results of analyses for samples received by the laboratory on 12/12/00 12:49. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Client Services Manager

CA ELAP Certificate #1210



Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 2101 Park Blvd. Project Number: 2101 Park Blvd. Project Manager: Nick Sudano	Reported: 01/03/01 09:16
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## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-3	MJL0407-01	Water	12/11/00 15:30	12/12/00 12:49



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

Project: 2101 Park Blvd.  
Project Number: 2101 Park Blvd.  
Project Manager: Nick Sudano

**Reported:**  
01/03/01 09:16

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-3 (MJL0407-01) Water</b> <b>Sampled: 12/11/00 15:30</b> <b>Received: 12/12/00 12:49</b>									
Purgeable Hydrocarbons	2300	1000	ug/l	20	0L18003	12/18/00	12/18/00	DHS LUFT	P-01
Benzene	483	10.0	"	"	"	"	"	"	
Toluene	13.4	10.0	"	"	"	"	"	"	
Ethylbenzene	72.8	10.0	"	"	"	"	"	"	
Xylenes (total)	64.4	10.0	"	"	"	"	"	"	
Methyl tert-butyl ether	183	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %		70-130	"	"	"	"	



Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 2101 Park Blvd. Project Number: 2101 Park Blvd. Project Manager: Nick Sudano	<b>Reported:</b> 01/03/01 09:16
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**MTBE Confirmation by EPA Method 8260A  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-3 (MJL0407-01) Water Sampled: 12/11/00 15:30 Received: 12/12/00 12:49</b>									
Methyl tert-butyl ether	ND	5.00	ug/l	5	1A02024	12/25/00	12/25/00	EPA 8260A	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		155 %	70-130		"	"	"	"	S-04



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**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 (MJL0407-01) Water</b> <b>Sampled: 12/11/00 15:30</b> <b>Received: 12/12/00 12:49</b>									
<b>Total Dissolved Solids</b>	970	10.0	mg/l	1	0L15024	12/15/00	12/22/00	EPA 160.1	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 2101 Park Blvd. Project Number: 2101 Park Blvd. Project Manager: Nick Sudano	<b>Reported:</b> 01/03/01 09:16
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**Anions by EPA Method 300.0  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S-3 (MJL0407-01) Water</b> <b>Sampled: 12/11/00 15:30</b> <b>Received: 12/12/00 12:49</b>									
Nitrate as N	ND	0.226	mg/l	10	0L19015	12/13/00	12/13/00	EPA 300.0	
Sulfate as SO4	6.76	5.00	"	"	"	"	"	"	



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## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - 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 0L18003 - EPA 5030B [P/T]

#### Blank (0L18003-BLK1)

Prepared & Analyzed: 12/18/00

Purgeable Hydrocarbons	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	8.94		"	10.0		89.4	70-130			

#### LCS (0L18003-BS1)

Prepared & Analyzed: 12/18/00

Benzene	9.24	0.500	ug/l	10.0		92.4	70-130			
Toluene	8.44	0.500	"	10.0		84.4	70-130			
Ethylbenzene	8.41	0.500	"	10.0		84.1	70-130			
Xylenes (total)	25.5	0.500	"	30.0		85.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.75		"	10.0		87.5	70-130			

#### Matrix Spike (0L18003-MS1)

Source: MJL0426-02

Prepared & Analyzed: 12/18/00

Benzene	9.12	0.500	ug/l	10.0	ND	91.2	60-140			
Toluene	8.05	0.500	"	10.0	ND	80.5	60-140			
Ethylbenzene	7.76	0.500	"	10.0	ND	77.6	60-140			
Xylenes (total)	24.5	0.500	"	30.0	ND	81.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	10.3		"	10.0		103	70-130			

#### Matrix Spike Dup (0L18003-MSD1)

Source: MJL0426-02

Prepared & Analyzed: 12/18/00

Benzene	8.87	0.500	ug/l	10.0	ND	88.7	60-140	2.78	25	
Toluene	8.08	0.500	"	10.0	ND	80.8	60-140	0.372	25	
Ethylbenzene	8.05	0.500	"	10.0	ND	80.5	60-140	3.67	25	
Xylenes (total)	24.1	0.500	"	30.0	ND	80.3	60-140	1.65	25	
Surrogate: a,a,a-Trifluorotoluene	8.08		"	10.0		80.8	70-130			



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## MTBE Confirmation by EPA Method 8260A - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1A02024 - EPA 5030B [P/T]</b>										
<b>Blank (1A02024-BLK1)</b>										
Prepared & Analyzed: 12/25/00										
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	9.21		"	10.0		92.1	70-130			
<b>LCS (1A02024-BS1)</b>										
Prepared & Analyzed: 12/25/00										
Methyl tert-butyl ether	9.44	1.00	ug/l	10.0		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.6		"	10.0		106	70-130			
<b>LCS Dup (1A02024-BSD1)</b>										
Prepared & Analyzed: 12/25/00										
Methyl tert-butyl ether	10.3	1.00	ug/l	10.0		103	70-130	8.71	25	
Surrogate: 1,2-Dichloroethane-d4	10.5		"	10.0		105	70-130			
<b>Matrix Spike (1A02024-MS1)</b>										
Source: MJL0337-04 Prepared & Analyzed: 12/25/00										
Methyl tert-butyl ether	175	20.0	ug/l	200	ND	87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	16.1		"	10.0		161	70-130			S-04
<b>Matrix Spike Dup (1A02024-MSD1)</b>										
Source: MJL0337-04 Prepared & Analyzed: 12/25/00										
Methyl tert-butyl ether	149	20.0	ug/l	200	ND	74.5	70-130	16.0	25	
Surrogate: 1,2-Dichloroethane-d4	15.4		"	10.0		154	70-130			S-04



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01/03/01 09:16

**Conventional Chemistry Parameters by APHA/EPA Methods - 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 0L15024 - General Preparation**

**Blank (0L15024-BLK1)**

Prepared: 12/15/00 Analyzed: 12/22/00

Total Dissolved Solids ND 10.0 mg/l

**LCS (0L15024-BS1)**

Prepared: 12/15/00 Analyzed: 12/22/00

Total Dissolved Solids 490 10.0 mg/l 500 98.0 80-120

**Matrix Spike (0L15024-MS1)**

Source: MJL0397-02

Prepared: 12/15/00 Analyzed: 12/22/00

Total Dissolved Solids 920 20.0 mg/l 500 454 93.2 80-120

**Matrix Spike Dup (0L15024-MSD1)**

Source: MJL0397-02

Prepared: 12/15/00 Analyzed: 12/22/00

Total Dissolved Solids 936 20.0 mg/l 500 454 96.4 80-120 1.72 20



Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 2101 Park Blvd. Project Number: 2101 Park Blvd. Project Manager: Nick Sudano	<b>Reported:</b> 01/03/01 09:16
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## 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
<b>Batch 0L19015 - General Preparation</b>										
<b>Blank (0L19015-BLK1)</b> Prepared & Analyzed: 12/13/00										
Nitrate as N	ND	0.0226	mg/l							
Sulfate as SO4	ND	0.500	"							
<b>LCS (0L19015-BS1)</b> Prepared & Analyzed: 12/13/00										
Nitrate as N	2.16	0.0226	mg/l	2.26		95.6	90-110			
Sulfate as SO4	9.45	0.500	"	10.0		94.5	90-110			
<b>Matrix Spike (0L19015-MS1)</b> Source: MJL0373-01 Prepared & Analyzed: 12/13/00										
Nitrate as N	113	0.226	mg/l	22.6	83.5	131	80-120			Q-03
Sulfate as SO4	252	5.00	"	100	134	118	80-120			
<b>Matrix Spike Dup (0L19015-MSD1)</b> Source: MJL0373-01 Prepared & Analyzed: 12/13/00										
Nitrate as N	113	0.226	mg/l	22.6	83.5	131	80-120	0	20	Q-03
Sulfate as SO4	252	5.00	"	100	134	118	80-120	0	20	



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**Reported:**  
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### Notes and Definitions

- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-03 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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







MAR 22 2001

EQUIVA WELL MONITORING DATA SHEET

BTS #: 0012-11-53	Site: # 204-5508-1206
Sampler: Sample	Date: 11/4/00
Well I.D.: 5-3	Well Diameter: 0 3 4 6 8
Total Well Depth: 15-19	Depth to Water: 5-20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: FVC Grade	D.O. Meter (if req'd): FSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other \_\_\_\_\_

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: \_\_\_\_\_

$$\frac{\text{No. (Gals.)} \times \text{Purge}}{\text{Specified Volumes}} = \text{Calculated Volume Gals.}$$

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.01	4"	0.65
2"	0.16	6"	1.17
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
15:20	85.0	10.0	1740	7200	-	Turbid / odor
						Ferrous Iron - 2.0
						Alkalinity - 1540

Did well dewater? Yes  No  Gallons actually evacuated: -

Sampling Time: 15:30 Sampling Date: 11/11/00

Sample I.D.: 5-3 Laboratory: Sequoia Columbia Other \_\_\_\_\_

Analysis: Nitrate, Sulfate, TDS, Alkalinity, Ferrous Iron

EB / Duplicate ID (if applicable)

Analysis: Other

Flow rate	2.0	Flow rate	
Flow rate	1.54	Flow rate	



**EXPLANATION**

- S-1 ● Monitoring well location (Enviros - 06/15/95)
- S-3 ● 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	

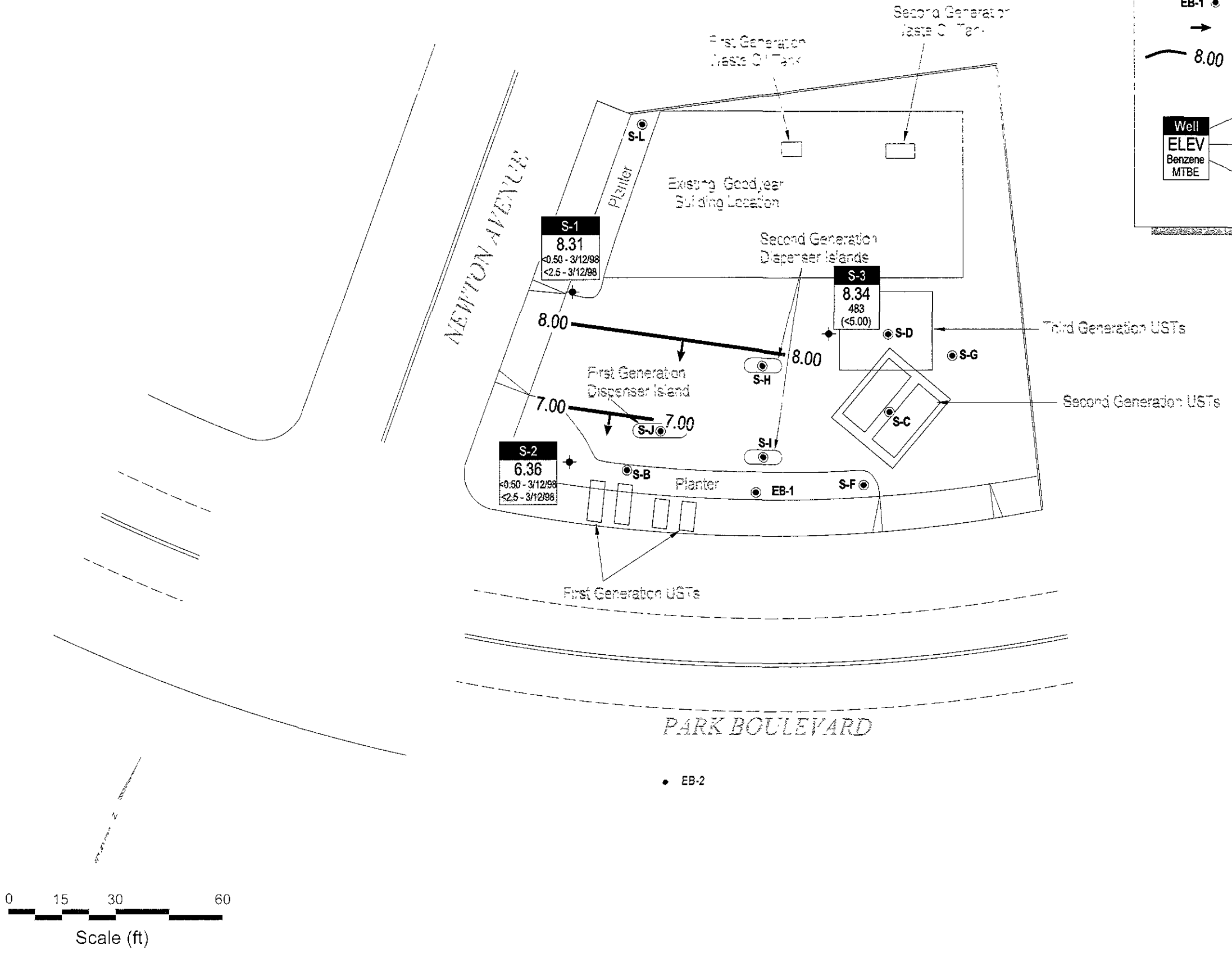


FIGURE  
**2**