

**ENGINEERING-SCIENCE, INC.**

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HAZMAT

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November 16, 1993

Ms. Susan Hugo  
Alameda County Department of  
Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94621

Re: Greyhound Terminal  
Location #8934  
Oakland, California  
Quarterly Report

Dear Ms. Hugo:

Engineering-Science, Inc. (ES) is pleased to present, on behalf of Greyhound Lines, Inc. (GLI), this quarterly groundwater monitoring report for the GLI terminal in Oakland, California. The report also serves as the October 1993 monthly monitoring report.

The information contained in this Quarterly Status Report is presented in the format shown in "Appendix A" of the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August 1990). GLI has reviewed and approved this report and has assigned ES to be their designated representative for preparation and submittal of the quarterly status reports. The enclosed quarterly report has been completed accurately, and in accordance with all applicable LUFT and Tri-Regional requirements. GLI agrees with the conclusions and recommendations outlined in this cover letter and the attached report.

Groundwater samples were collected at the Oakland facility on October 7, and analyzed for total petroleum hydrocarbons as diesel (TPH-D), and BTEX (EPA Method 602). A site map showing the monitoring well locations is included as Figure 1. The detection limits specified in the 1989 LUFT Manual (Appendix D, Table 3-5) were met by the analytical laboratory. All physical data for the monitoring wells sampled on October 7, 1993 are summarized on Table 1. The analytical results are summarized on Table 2. Previous groundwater analytical data have been summarized on Table 3.

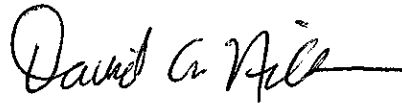
The next groundwater sampling event will be conducted during the month of January 1994. The Alameda County Department of Environmental Health (ACDEH) will be notified at least one week prior to the sampling event so that a representative of ACDEH may be on site. The next quarterly status report will be prepared and submitted to your department on or before February 16, 1994.

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If you have any questions or require additional information, please call us at (315) 451-9560.

Sincerely,

ENGINEERING-SCIENCE, INC.



David A. Nickerson  
Project Manager



David L. Chaffin, R.G.  
California Registered Geologist  
(No. 4885)

DLC/DAN/EJS

cc: T. Portele, GLI, Dallas, TX  
Richard Hiatt, Regional Water Quality Control Board

**OCTOBER 1993  
QUARTERLY STATUS REPORT  
GREYHOUND TERMINAL  
OAKLAND, CALIFORNIA**

• **Status of investigation and cleanup activities:**

A preliminary site investigation was completed by Engineering-Science, Inc. (ES) in January 1992. The Preliminary Site Investigation report was submitted to the Alameda County Department of Environmental Health (ACDEH) on January 27, 1992.

Based on the results of the preliminary investigation, a groundwater monitoring program consisting of monthly groundwater level measurements and quarterly groundwater sampling and reporting was initiated by Greyhound in June 1992 to better define the impact of former UST operations to groundwater.

Based on measurable thicknesses of free product discovered in four existing monitoring wells on-site, Greyhound subsequently proposed the installation of an automated free product recovery system. Upon ACDEH approval in October 1992, Greyhound obtained the required permits and installed a recovery system on-site during the week of November 9, 1992. A report detailing recovery system installation was submitted to ACDEH on December 18, 1992. The recovery system was placed in operation during the week of January 4, 1993 after discharge permit conditions were finalized with the East Bay Municipal Utility District (EBMUD).

ACDEH requested that Greyhound provide documentation regarding the underground fuel storage tank system (UST) removal, including disposal documentation in a letter to Greyhound dated October 23, 1992. Greyhound subsequently prepared a Tank Closure Documentation Report for this facility. The report was submitted to ACDEH on December 15, 1992. Greyhound awaits any comments ACDEH may have regarding the current groundwater monitoring program, free product recovery operations, and tank closure documentation submitted for this location.

In July 1993, Greyhound implemented a Supplemental Site Assessment at the facility to define the full extent of contamination both on and off-site. A site plan showing the locations of new monitoring wells ES-6 through ES-11 is included as Figure 1. Results of the Supplemental Site Assessment indicated that the residual soil and groundwater contamination is limited to the former tank pit area on site. Greyhound presented these results to ACDEH in a meeting on September 1, 1993. At that time ACDEH indicated that a risk assessment could be prepared to support "alternative points of compliance" or site-specific cleanup levels for this site. Greyhound has finalized a Preliminary Risk Assessment and Supplemental Site Assessment report, both of which will be submitted shortly to ACDEH.

• **Proposed continuing or next phase of investigation:**

Based on the results of the Supplemental Site Assessment and Preliminary Risk Evaluation, Greyhound proposes to continue free product recovery and monthly groundwater monitoring. No soil corrective actions are warranted at this location and Greyhound has proposed that site-specific cleanup levels be established to leave residual soil contamination in place.

**OCTOBER 1993**  
**QUARTERLY STATUS REPORT (CONTINUED)**

Results of the supplemental assessment will be presented in a report that will be submitted to ACDEH.

- **Method of cleanup proposed or implemented to date:**

In October 1992, Greyhound proposed a free product recovery system for the removal of free product in four wells. A hydrocarbon recovery system was installed in November 1992 after receiving approval from Ms. Susan Hugo (ACDEH). Recovery operations were initiated during the week of January 4, 1993. To date, approximately 615 gallons of free product and contaminated groundwater have been recovered and properly disposed off-site by Evergreen Vacuum Services, a State of California-certified waste hauler.

- **Time schedules for the completion of the investigation of the site and remediation:**

The monthly groundwater monitoring, quarterly groundwater sampling, and hydrocarbon recovery programs should continue until free product has been removed from the groundwater. Greyhound proposes long-term groundwater monitoring beyond free product recovery, until the risk for off-site migration of residual contaminants has been shown to not exist.

- **Method and location of disposal of the released hazardous substance and any contaminated soil, groundwater or surface water:**

Approximately 615 gallons of free product and contaminated groundwater have been recovered to date. Recovered diesel fuel and contaminated groundwater have been properly recycled off-site by Evergreen Vacuum Services, a State of California-certified waste hauler.

- **Manifest required for transport of hazardous substances:**

All disposal/transport manifests for diesel fuel and contaminated groundwater recovered to date were included in Appendix A of the January 1993 Quarterly Status Report. Future manifests will be included in future quarterly status reports.

- **Monitoring well data:**

The physical data obtained from the monitoring wells on October 7, 1993 are presented in Table 1. A site map showing the monitoring well locations is included as Figure 1. Physical data obtained during previous monthly monitoring visits are given in Table 5. Free product thicknesses have been eliminated or significantly reduced in the four recovery wells on-site (ES-1, ES-2, ES-5, and BC-1) since installation of the recovery system in November 1992. A groundwater contour map (Figure 2) was constructed from groundwater level elevations measured on September 1, 1993. Note that groundwater flow direction, originally estimated to be north, now appears to be toward the southeast.

**OCTOBER 1993  
QUARTERLY STATUS REPORT (CONTINUED)**

- **Analytical results of groundwater or soil sampling:**

Results of the most recent quarterly groundwater sampling event (October 1993) are summarized in Table 2. Ten of the 14 monitoring wells were sampled. Monitoring wells ES-1, ES-2, ES-5 and BC-1 were not sampled due to the presence of free product or hydrocarbon sheens.

TPH-D concentrations were non-detect for all samples except BC-2 (1.4 mg/l) and BC-3 (1.4 mg/l). Benzene was detected in only three samples: ES-3 at a concentration of 2.0 µg/l, ES-4 at a concentration of 8.0 µg/l, and ES-6 at a concentration of 1.0 µg/l.

Toluene was detected only in ES-3 at a concentration of 1.0 µg/l. Xylenes were detected in three samples: ES-3 (2.0 µg/l), ES-4 (2.0 µg/l), and BC-3 (2.0 µg/l).

BTEX concentrations in groundwater samples collected from ES-7 through ES-11, and BC-2 were below the laboratory detection limits. Greyhound will resample these wells during the next quarterly sampling event in January 1994.

Groundwater analytical data from previous quarterly sampling events are summarized on Table 3. Soil analytical data from the preliminary and supplemental site investigations are shown on Table 4.

- **A site map showing the "zero line" of contamination, and changes in analyses and gradient measurements over the last quarter:**

A map showing groundwater contaminant concentrations has been prepared and included as Figure 3.

- **Tabulated data for all monitoring wells including groundwater elevations collected to date:**

The physical data collected to date for all of the monitoring wells located at the facility are presented in Table 5.

- **A site map delineating groundwater elevation contours based on recent data:**

Groundwater elevations determined by water level measurements made on September 1, 1993 suggested a southeasterly groundwater flow direction at the site (Figure 2).

- **Analytical results from all previous sampling events including laboratory reports for the most recent sampling event and chain-of-custody documentation:**

A summary of the analytical results from previous groundwater sampling events is presented in Table 3. A summary of the analytical data for soil samples collected to date is presented in Table 4. The laboratory results from the most recent groundwater sampling event, including chain-of-custody documentation, are included in Appendix A.

**OCTOBER 1993**  
**QUARTERLY STATUS REPORT (CONTINUED)**

- **Site map delineating contamination contours for soil and groundwater based on recent data:**

A map delineating the extent of groundwater contamination is included as Figure 3. Figure 3 shows analytical data for groundwater samples collected on October 7, 1993 plotted on a site base map.

Figure 4 is a site map indicating areas of soil contamination based on data obtained during the preliminary site investigation completed during November 1991 and the supplemental site assessment conducted in July 1993. Soil contamination is limited to the area near sample locations ES-1, ES-2, and ES-5. A 100 mg/kg TPHD contour has been included to illustrate the extent of TPHD contamination in this area. The extent of soil contamination at the site has been completely defined by the supplemental site assessment.

- **Tank owner commitment letter:**

The cover letter submitted with this report is intended to serve as the tank owner commitment letter.

- **The quantity of groundwater and vapors removed during the reporting period and cumulative to date:**

Approximately 615 gallons of recovered diesel fuel and contaminated groundwater have been removed to date. This represents an increase of an additional 15 gallons of free product recovered during the last two quarters. As of October 7, 1993, 59,570 gallons of carbon-treated groundwater have been processed through the recovery system on-site and discharged to the sanitary sewer.

- **Times and dates equipment was not operating, cause of shutdown, and a corrective action plan to insure similar shutdowns do not reoccur:**

The system has been fully operational with only a brief shutdown period between October 6 and October 21, 1993 during which a problem with the system's air compressor caused a temporary shutdown. The system was repaired and placed back on-line on October 21, 1993 and is currently inspected by ES personnel during monthly monitoring visits and daily by facility personnel.

- **Timelines for activities currently underway or proposed:**

Greyhound will continue the monthly groundwater monitoring, quarterly sampling, and hydrocarbon recovery program in accordance with all applicable LUFT and Tri-Regional requirements. The next quarterly status report will be prepared and submitted to ACDEH on or before February 16, 1993.

Greyhound will submit the Supplemental Site Assessment and Preliminary Risk Evaluation reports to ACDEH for review and approval of recommendations.

**OCTOBER 1993**  
**QUARTERLY STATUS REPORT (CONTINUED)**

- **Estimates of the quantity of contamination remaining in soil and groundwater, and time for completing remediation:**

A calculation of the remaining volume of residual soil contamination remaining at the facility can be made based on the results of the Supplemental Site Assessment. However, Greyhound has proposed to leave existing residual soil contamination in place under site-specific cleanup levels which are supported by the low risk to human health and the environment indicated by the results of the Preliminary Risk Evaluation which will be provided to ACDEH shortly for review.

The quantity of contaminants remaining in groundwater cannot be estimated since the volume of the initial release is unknown. The time required to remediate the site will be estimated following ACDEH review of the Risk Assessment and Supplemental Site Assessment Reports.

**TABLE 1**  
**MONITORING WELL DATA SUMMARY**  
**GREYHOUND TERMINAL, OAKLAND, CALIFORNIA**  
**October 7, 1993**

Location	Elevation of PVC T.O.C (Ft.)	Depth to Water (Ft.)	Groundwater Elevation (*)	Product Layer Thickness (ft.)
ES-1	96.64	19.03	77.61	0.01
ES-2	96.44	19.60	76.84	0.03
ES-3	96.96	19.62	77.34	0
ES-4	95.70	18.62	77.08	0
ES-5	95.85	19.33	76.52	0.68
ES-6	97.84	21.81	76.03	0
ES-7	96.40	19.99	76.41	0
ES-8	96.64	19.13	77.51	0
ES-9	95.78	17.90	77.88	0
ES-10	95.24	17.40	77.84	0
ES-11	95.92	18.90	77.02	0
BC-1	96.16	19.43	76.73	0.18
BC-2	96.32	19.02	77.30**	0
BC-3	96.20	18.58	77.62**	0

T.O.C. – Top of Casing

\*\* – Well casings not vertical.

(\*) Elevations based on site surface vertical datum (97.50, on steel grate for storm sewer near wash rack).



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**GREYHOUND TERMINAL, OAKLAND, CALIFORNIA**  
**OCTOBER 7, 1993**

Location	Date Collected	Parameter	Result	Detection Limit
ES-3	10/7	Benzene <sup>1</sup>	2.0	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	1.0	0.3 ug/L
		Xylenes (total) <sup>1</sup>	2.0	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L
ES-4	10/7	Benzene <sup>1</sup>	8.0	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	2.0	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L
ES-6	10/7	Benzene <sup>1</sup>	1.0	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L
ES-7	10/7	Benzene <sup>1</sup>	ND	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L
ES-8	10/7	Benzene <sup>1</sup>	ND	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L
ES-9	10/7	Benzene <sup>1</sup>	ND	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L

**TABLE 2  
(Continued)  
GROUNDWATER ANALYTICAL RESULTS  
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA  
OCTOBER 7, 1993**

Location	Date Collected	Parameter	Result	Detection Limit
ES-10	10/7	Benzene <sup>1</sup>	ND	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L
ES-11	10/7	Benzene <sup>1</sup>	ND	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.6 ug/L
		TPH-D <sup>2</sup>	ND	0.50 mg/L
BC-2	4/6	Benzene <sup>1</sup>	ND	0.3 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.6 ug/L
		TPH-D <sup>2</sup>	1.4	0.50 mg/L
BC-3	4/6	Benzene <sup>1</sup>	ND	0.3 ug/L
		Ethylbenzene <sup>1</sup>	1.0	0.3 ug/L
		Toluene <sup>1</sup>	ND	0.3 ug/L
		Xylenes (total) <sup>1</sup>	2.0	0.6 ug/L
		TPH-D <sup>2</sup>	1.4	0.50 mg/L

<sup>1</sup> Analyzed by EPA Method 602. Concentrations in ug/l.

<sup>2</sup> Analyzed by DHS/LUFT Method Modified EPA 8015  
Concentrations in mg/l.

Notes:

Wells ES-1, 2, 5, and BC-1 were not sampled due to the presence of free product or hydrocarbon sheens.

ND - Not detected above the analytical method detection limit.

TABLE 3

**SUMMARY OF ANALYTICAL DATA  
GROUNDWATER ANALYSIS  
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA**

Sampling Date	Location	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene ug/l	Total BTEX ug/l	TPH-D(*) mg/l	TPH-G(*) mg/l
07/08/92	ES-3	54	21	48	34	157	1.3	NA
	ES-4	31	5.6	ND	2.8	39.4	ND	NA
	BC-2	ND	ND	ND	8.4	8.4	2.1	NA
	BC-3	ND	2.5	ND	6.1	8.6	3.9	NA
10/06/92	ES-3	93	18	ND	11	122	ND	NA
	ES-4	100	8.2	ND	7.6	115.8	ND	NA
	BC-2	ND	1.1	0.9	7.2	9.2	ND	NA
	BC-3	ND	1.9	0.5	1.8	4.2	0.8	NA
01/07/93	ES-3	52	49	100	250	451	ND	NA
	ES-4	30	6.7	7.7	16	60.4	ND	NA
	BC-2	ND	1.1	1.5	9.5	12.1	ND	NA
	BC-3	ND	ND	ND	ND	ND	ND	NA
04/06/93	ES-3	53	ND	67	78	198	0.51	4.5
	ES-4	33	2.3	1.9	4.7	41.9	ND	0.36
	BC-2	ND	ND	ND	ND	ND	0.13	ND
	BC-3	ND	ND	ND	ND	ND	0.12	ND

TABLE 3  
(Continued)  
SUMMARY OF ANALYTICAL DATA  
GROUNDWATER ANALYSIS  
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA

Sampling Date	Location	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene ug/l	Total BTEX ug/l	TPH-D(*) mg/l	TPH-G(*) mg/l
07/23/93	ES-3	28.0	5.9	4.6	4.6	43.1	0.6	1.5
	ES-4	24.0	1.1	0.7	8.3	34.1	ND	ND
	ES-6	ND	ND	ND	ND	ND	ND	ND
	ES-7	ND	ND	ND	ND	ND	ND	ND
	ES-8	ND	ND	ND	ND	ND	ND	ND
	ES-9	ND	ND	ND	ND	ND	ND	ND
	ES-10	ND	ND	ND	ND	ND	ND	ND
	ES-11	ND	0.7	ND	1.2	1.90	ND	ND
	BC-2	1.0	2.4	1.8	7.9	13.1	0.5	ND
	BC-3	2.7	3.6	3.6	7.9	17.8	NA	ND
10/07/93	ES-3	2.0	1.0	ND	2.0	5.0	ND	NA
	ES-4	8.0	ND	ND	2.0	10.0	ND	NA
	ES-6	1.0	ND	ND	ND	ND	ND	NA
	ES-7	ND	ND	ND	ND	ND	ND	NA
	ES-8	ND	ND	ND	ND	ND	ND	NA
	ES-9	ND	ND	ND	ND	ND	ND	NA
	ES-10	ND	ND	ND	ND	ND	ND	NA
	ES-11	ND	ND	ND	ND	ND	ND	NA
	BC-2	ND	ND	ND	ND	ND	1.4	NA
	BC-3	ND	ND	1.0	2.0	3.0	1.4	NA

ND – Parameter analyzed for but not detected above method detection limit.

NA – Parameter not analyzed.

(\*) – Total petroleum hydrocarbons diesel (TPH-D) and total petroleum hydrocarbons as gasoline (TPH-G) were analyzed by GC/FID by the DHS/LUFT method (modified EPA method 8015/solution preparation method 3510).

**TABLE 4  
SOIL ANALYTICAL DATA SUMMARY  
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA**

Location Sample Depth	Date	Benzene ug/kg	Toluene ug/kg	Ethylbenzene ug/kg	Xylenes ug/kg	Total BTEX <sup>1</sup> ug/kg	TPH-D <sup>2</sup> mg/kg	TPH-G <sup>3</sup> mg/kg
ES-1 (16-18)	11/91	ND	3,000	3,400	22,000	28,400	ND	NA
ES-2 (16-18)	11/91	ND	27,000	28,000	150,000	205,000	ND	NA
ES-3 (18-19)	11/91	ND	ND	ND	ND	ND	ND	NA
ES-4 (16-16.5)	11/91	ND	ND	ND	ND	ND	ND	NA
ES-5 (15-17)	11/91	ND	80	65	330	475	160	NA
ES-6 (15-16.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-7 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-8 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-9 (15-16.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-10 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-11 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND

NA= Not analyzed.

ND= Non-detect; sample analyzed but did not exceed Method Detection Limit.

<sup>1</sup> Total BTEX= analyzed by EPA Method 8020. Results reported in ug/kg.  
Refer to analytical laboratory reports for method detection limit.

<sup>2</sup> TPH-Diesel= Total Petroleum Hydrocarbons (TPH) for diesel by EPA Method 3510/8015.  
Results reported in mg/kg. Refer to analytical laboratory reports for method detection limits.

<sup>3</sup> TPH-Gasoline= Total Petroleum Hydrocarbons (TPH) for Gasoline by EPA Method 3510/8015.  
Results reported in mg/kg. Refer to analytical laboratory reports for method detection limits.

TABLE 5

**MONITORING WELL DATA SUMMARY  
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA**

Date	Well Location	Depth to Liquid (Feet)	Depth to Water (Feet)	Free Product Thickness (Feet)
6/16/92	ES-1	20.18	23.78	3.60
	ES-2	18.63	18.64	.01
	ES-3	19.41	19.41	0
	ES-4	18.40	18.40	0
	ES-5	15.32	15.65	.33
	BC-1	20.64	20.84	.20
	BC-2	16.25	16.25	0
	BC-3	16.48	16.48	0
7/7/92	ES-1	18.60	18.60	0
	ES-2	20.02	19.62	.40
	ES-3	19.52	19.52	0
	ES-4	18.51	18.51	0
	ES-5	22.23	20.23	2.0
	BC-1	19.55	20.66	1.11
	BC-2	16.89	16.89	0
	BC-3	16.68	16.68	0
8/4/92	ES-1	18.80	18.81	.01
	ES-2	19.17	19.76	.59
	ES-3	19.68	19.68	0
	ES-4	18.66	18.66	0
	ES-5	18.16	20.43	2.27
	BC-1	18.47	20.90	2.43
	BC-2	18.46	18.46	0
	BC-3	19.24	19.24	0
9/31/92	ES-1	18.96	18.97	.01
	ES-2	19.29	19.90	.61
	ES-3	19.80	19.80	0
	ES-4	18.79	18.79	0
	ES-5	18.24	20.80	2.56
	BC-1	18.68	21.02	2.34
	BC-2	18.89	18.89	0
	BC-3	19.10	19.10	0

**TABLE 5  
(Continued)  
MONITORING WELL DATA SUMMARY**

<b>Date</b>	<b>Well Location</b>	<b>Depth to Liquid (Feet)</b>	<b>Depth to Water (Feet)</b>	<b>Free Product Thickness (Feet)</b>
10/6/92	ES-1	19.08	19.10	.02
	ES-2	19.41	20.00	.59
	ES-3	19.96	19.96	0
	ES-4	18.92	18.92	0
	ES-5	18.24	21.37	3.13
	BC-1	18.82	21.14	2.32
	BC-2	18.50	18.50	0
	BC-3	18.93	18.93	0
11/6/92	ES-1	18.52	18.53	.01
	ES-2	18.84	19.44	.60
	ES-3	18.84	19.84	0
	ES-4	18.94	18.94	0
	ES-5	17.60	20.92	3.32
	BC-1	18.24	20.69	2.45
	BC-2	15.98	15.98	0
	BC-3	16.81	16.81	0
12/12/92	ES-1	18.55	18.55	0
	ES-2	18.75	19.10	.35
	ES-3	19.10	19.10	0
	ES-4	18.51	18.51	0
	ES-5	17.50	20.35	2.85
	BC-1	18.25	20.75	2.50
	BC-2	12.17	12.17	0
	BC-3	17.84	17.84	0
01/07/93	ES-1	20.25	20.26	.01
	ES-2	20.05	20.40	.35
	ES-3	19.20	19.20	0
	ES-4	18.76	18.76	0
	ES-5	19.35	22.00	2.65
	BC-1	19.60	21.76	2.16
	BC-2	13.50	13.50	0
	BC-3	16.55	16.55	0

**TABLE 5  
(Continued)**

<b>MONITORING WELL DATA SUMMARY</b>				
Date	Well Location	Depth to Liquid (Feet)	Depth to Water (Feet)	Free Product Thickness (Feet)
02/04/93	ES-1	17.56	17.56	0
	ES-2	18.12	18.19	0.07
	ES-3	18.32	18.32	0
	ES-4	17.56	17.56	0
	ES-5	17.34	17.95	0.61
	BC-1	17.81	17.96	0.15
	BC-2	15.46	15.46	0
	BC-3	16.16	16.16	0
03/05/93	ES-1	17.95	17.95	0
	ES-2	18.25	18.31	0.06
	ES-3	17.98	17.98	0
	ES-4	17.32	17.32	0
	ES-5	17.40	17.99	0.59
	BC-1	18.05	18.06	0.01
	BC-2	14.58	14.58	0
	BC-3	15.50	15.50	0
04/06/93	ES-1	17.08	17.88	0
	ES-2	18.20	18.31	0.11
	ES-3	15.92	15.92	0
	ES-4	17.26	17.26	0
	ES-5	17.28	17.28	0
	BC-1	18.26	18.26	0
	BC-2	15.20	15.20	0
	BC-3	15.44	15.44	0
05/06/93	ES-1	18.36	18.36	0
	ES-2	18.95	18.96	0.01
	ES-3	18.64	18.64	0
	ES-4	18.80	18.80	0
	ES-5	18.20	18.21	0.01
	BC-1	18.61	18.71	0.10
	BC-2	16.89	16.89	0
	BC-3	16.34	16.34	0



TABLE 5  
(Continued)

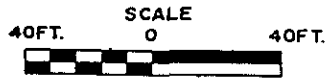
MONITORING WELL DATA SUMMARY



Date	Well Location	Depth to Liquid (Feet)	Depth to Water (Feet)	Free Product Thickness (Feet)
06/10/93	ES-1	18.60	18.60	0
	ES-2	19.10	19.11	0.01
	ES-3	NR	NR	NR
	ES-4	17.93	17.93	0
	ES-5	18.31	18.36	0.05
	BC-1	18.85	18.91	0.06
	BC-2	16.58	16.58	0
	BC-3	16.71	16.71	0
07/03/93	ES-1	18.68	18.68	0
	ES-2	19.31	19.32	0.01
	ES-3	18.12	18.12	0
	ES-4	18.08	18.08	0
	ES-5	19.50	19.50	0
	BC-1	19.05	19.15	0.10
	BC-2	17.75	17.75	0
	BC-3	16.81	16.81	0
08/04/93	ES-1	18.85	18.85	0
	ES-2	19.15	19.18	0.03
	ES-3	19.18	19.18	0
	ES-4	18.16	18.16	0
	ES-5	18.61	18.61	0
	BC-1	19.30	19.40	0.10
	BC-2	18.10	18.10	0
	BC-3	18.82	18.82	0

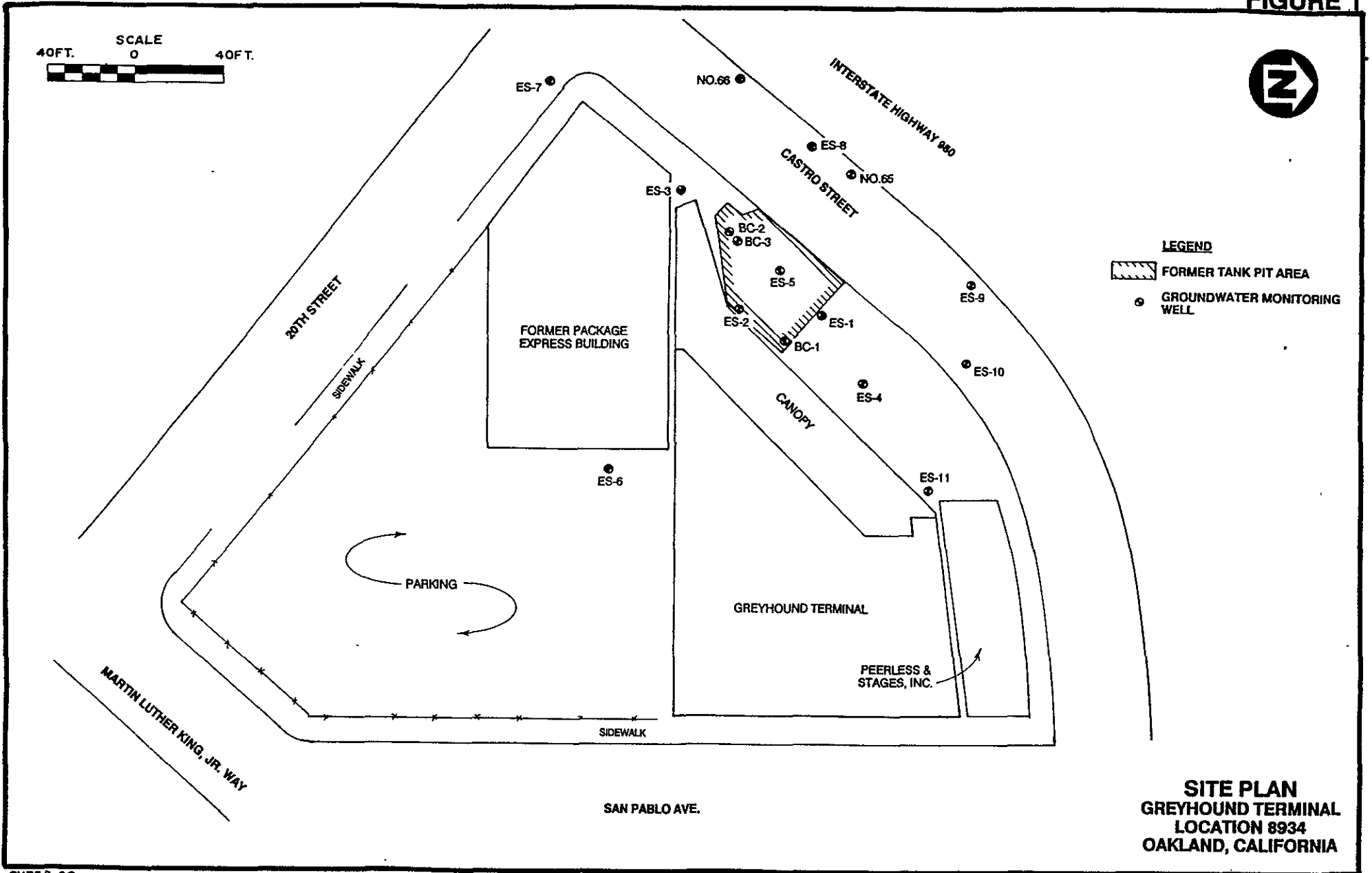
TABLE 5  
(Continued)

MONITORING WELL DATA SUMMARY

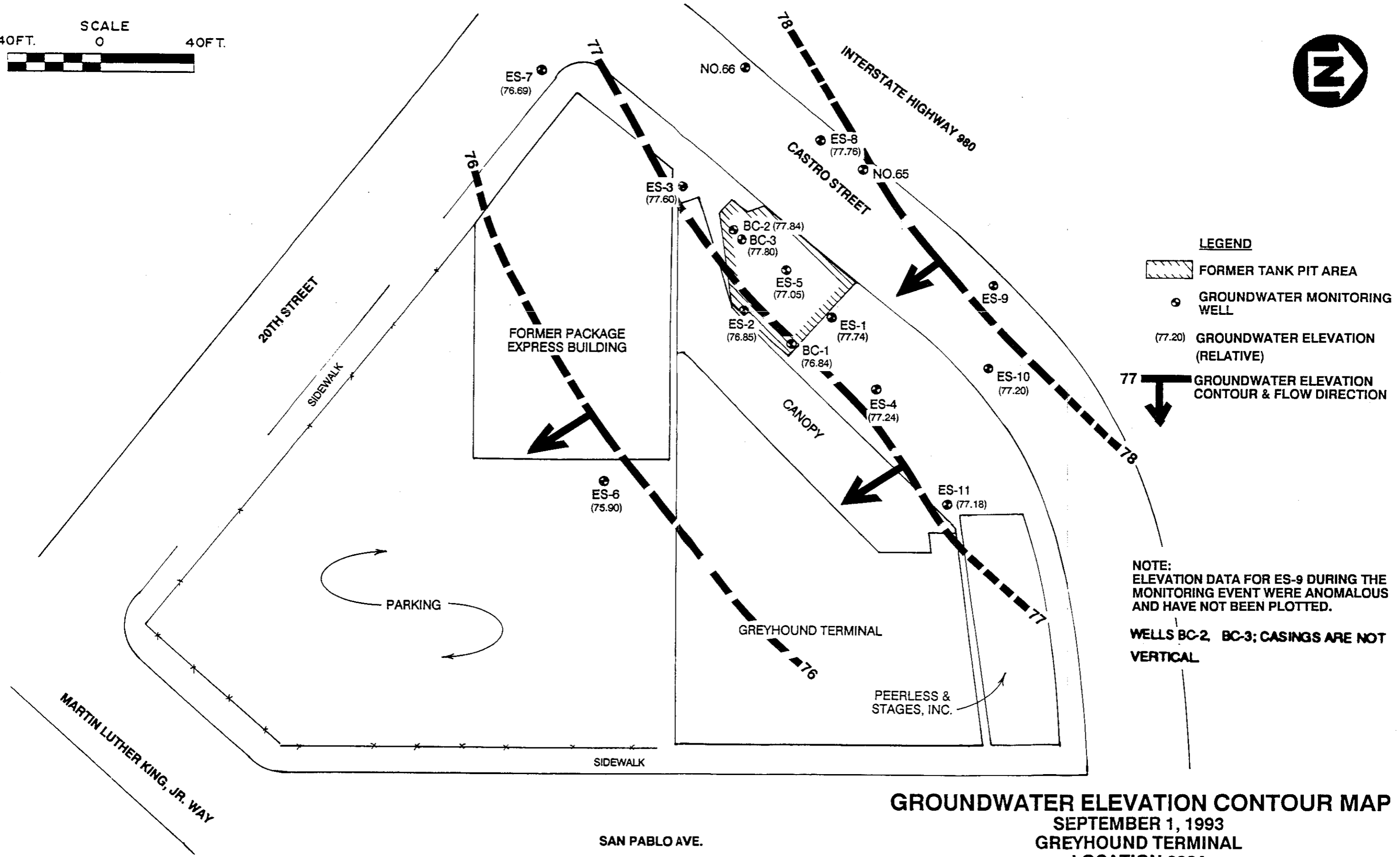
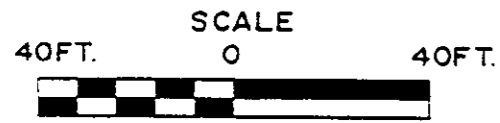
Date	Well Location	Depth to Liquid (Feet)	Depth to Water (Feet)	Free Product Thickness (Feet)
09/01/93	ES-1	18.90	18.90	0
	ES-2	19.50	19.59	0.09
	ES-3	19.36	19.36	0
	ES-4	18.46	18.46	0
	ES-5	18.79	18.80	0.01
	ES-6	21.94	21.94	0
	ES-7	19.71	19.71	0
	ES-8	18.88	18.88	0
	ES-9	19.74	19.74	0
	ES-10	18.04	18.04	0
	ES-11	18.74	18.74	0
	BC-1	19.23	19.32	0.09
	BC-2	18.48	18.48	0
	BC-3	18.40	18.40	0
10/07/93	ES-1	19.02	19.03	0.01
	ES-2	19.57	19.60	0.03
	ES-3	19.62	19.62	0
	ES-4	18.62	18.62	0
	ES-5	18.65	19.33	0.68
	ES-6	21.81	21.81	0
	ES-7	19.99	19.99	0
	ES-8	19.13	19.13	0
	ES-9	17.90	17.90	0
	ES-10	17.40	17.40	0
	ES-11	18.90	18.90	0
	BC-1	19.25	19.43	0.18
	BC-2	19.02	19.02	0
	BC-3	18.58	18.58	0



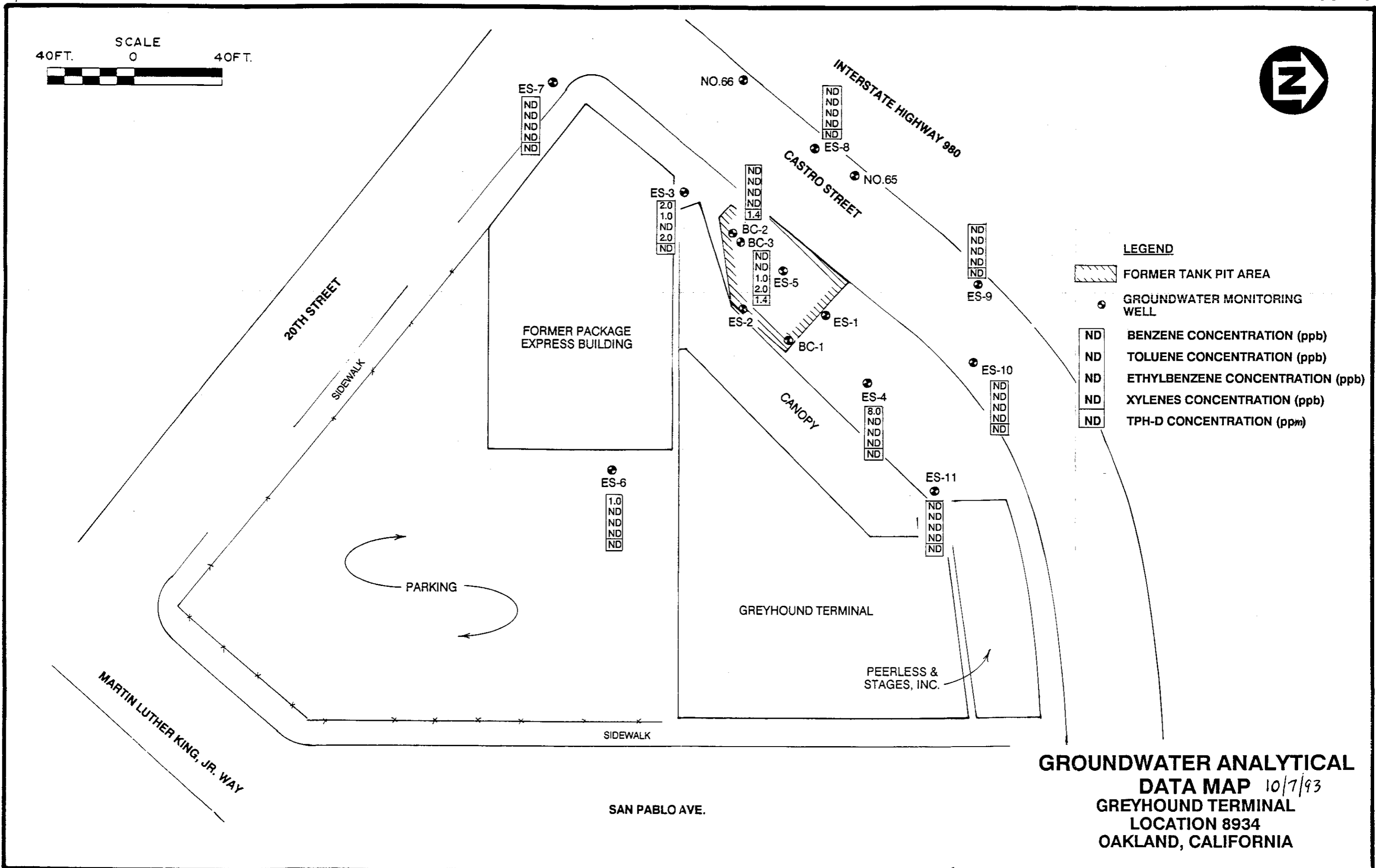
- LEGEND**
-  FORMER TANK PIT AREA
  -  GROUNDWATER MONITORING WELL

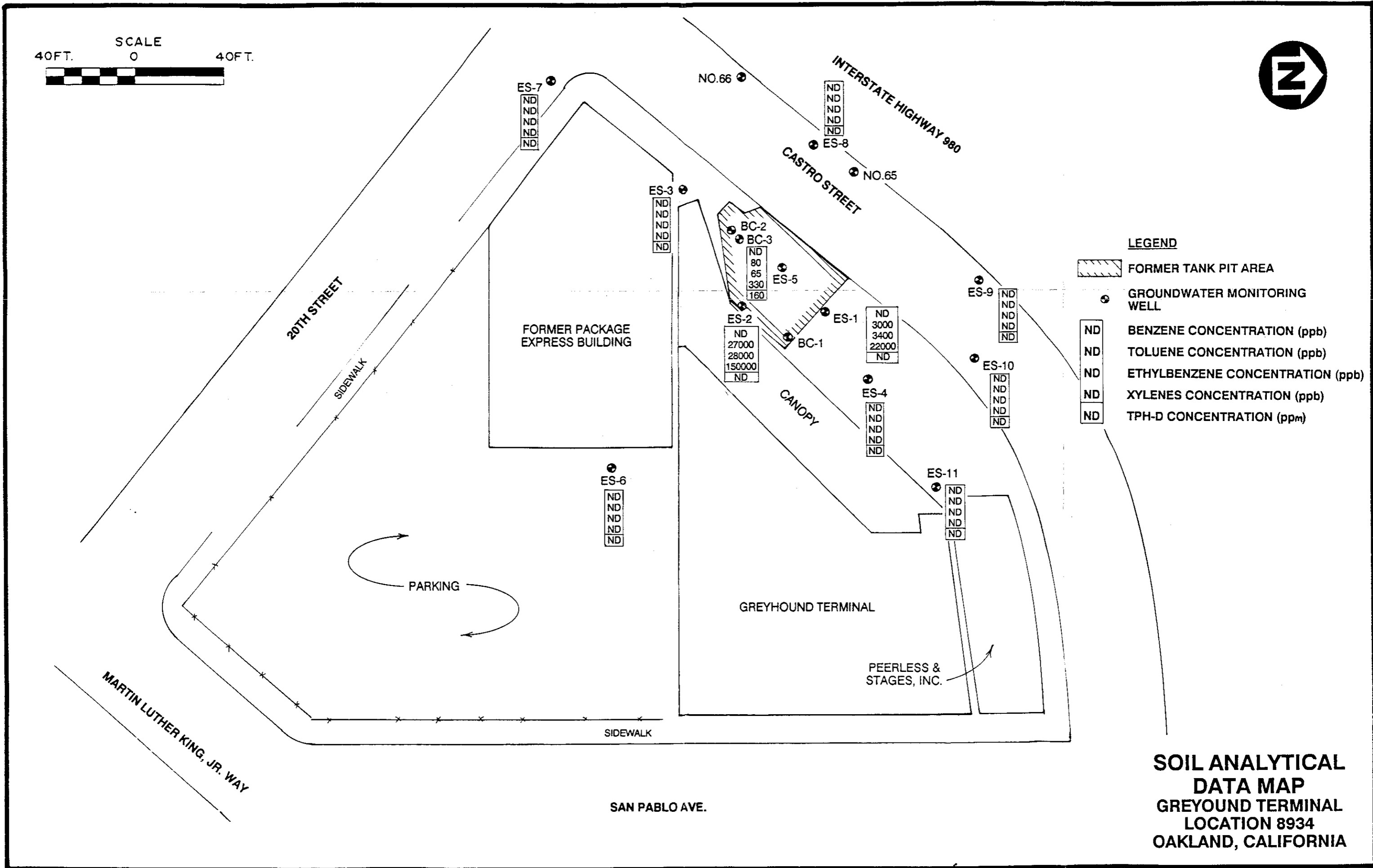


**SITE PLAN  
GREYHOUND TERMINAL  
LOCATION 8934  
OAKLAND, CALIFORNIA**



**GROUNDWATER ELEVATION CONTOUR MAP**  
 SEPTEMBER 1, 1993  
 GREYHOUND TERMINAL  
 LOCATION 8934  
 OAKLAND, CALIFORNIA





**APPENDIX A**  
**ANALYTICAL LABORATORY REPORT**  
**AND CHAIN-OF-CUSTODY**



**SPL-HOUSTON ENVIRONMENTAL LABORATORY**

**UST REPORT FAX COVER PAGE**

**TO:** D. Tickerson

**COMPANY:** Engineering Science

**FAX NUMBER:** (315) 451-9570

**PROJECT NUMBER:** 54360.18

**FROM:** NORMA PEDRAZA - UST DOCUMENT CONTROL

**FAX NUMBER:** (713) 660-8975 —

**TELEPHONE NUMBER:** (713) 660-0901 —

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Certificate of Analysis No. 9310274-01

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-3

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 09:30:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include Benzene, Toluene, Ethylbenzene, Total Xylene, Total Volatile Aromatic Hydrocarbons, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), and Petroleum Hydrocarbons-Diesel.

(P) - Practical Quantitation Limit ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

SPL, Inc., - Shari L. Grice



Certificate of Analysis No. 9310274-02

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-4

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 10:30:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, TOTAL VOLATILE AROMATIC HYDROCARBONS, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), METHOD 602, Analyzed by: MOO, Date: 10/10/93, Petroleum Hydrocarbons-Diesel, Mod. California DHS, Analyzed by: SG, Date: 10/13/93 12:48:00.

(P) - Practical Quantitation Limit ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. 9310274-03

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-6

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 12:30:00
DATE RECEIVED: 10/08/93

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, TOTAL VOLATILE AROMATIC HYDROCARBONS.

Table with 2 columns: Surrogate, % Recovery. Rows include 1,4-Difluorobenzene, 4-Bromofluorobenzene.

METHOD 602 \*
Analyzed by: MOO
Date: 10/10/93

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Row: Petroleum Hydrocarbons-Diesel Mod. California DHS.

(P) - Practical Quantitation Limit ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. 9310274-04

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-7

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 13:15:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include Benzene, Toluene, Ethylbenzene, Total Xylene, Total Volatile Aromatic Hydrocarbons, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), Method 602, Petroleum Hydrocarbons-Diesel.

ND - Not detected. (P) - Practical Quantitation Limit

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. 9310274-05

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-8

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 14:00:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, TOTAL VOLATILE AROMATIC HYDROCARBONS, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), METHOD 602, and Petroleum Hydrocarbons-Diesel.

ND - Not detected. (P) - Practical Quantitation Limit

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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SPL, Inc., - Shari L. Grice



Certificate of Analysis No. 9310274-06

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-9

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 14:40:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, TOTAL VOLATILE AROMATIC HYDROCARBONS, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), METHOD 602 \*, Analyzed by: MOO, Date: 10/10/93, Petroleum Hydrocarbons-Diesel, Mod. California DHS, Analyzed by: SG, Date: 10/13/93 12:48:00.

ND - Not detected. (P) - Practical Quantitation Limit

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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SPL, Inc., - Shari L. Grice



Certificate of Analysis No. 9310274-07

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-10

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 15:15:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include Benzene, Toluene, Ethylbenzene, Total Xylene, Total Volatile Aromatic Hydrocarbons, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), Method 602, and Petroleum Hydrocarbons-Diesel.

ND - Not detected. (P) - Practical Quantitation Limit

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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SPL, Inc., - Shari L. Grice



Certificate of Analysis No. 9310274-08

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: MW-11

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 11:20:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, TOTAL VOLATILE AROMATIC HYDROCARBONS, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), METHOD 602, Petroleum Hydrocarbons-Diesel.

ND - Not detected. (P) - Practical Quantitation Limit

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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SPL, Inc., - Shari L. Grice





Certificate of Analysis No. 9310274-09

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: A

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 11:30:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA RESULTS, PQL\*, UNITS. Lists various chemical compounds and their corresponding results and units.

METHOD: 624
(continued on next page)



Certificate of Analysis No. 9310274-09

Engineering Science, Inc.

SAMPLE ID: A

PARAMETER	ANALYTICAL DATA (continued)		UNITS
	RESULTS	PQL*	
ANALYZED BY: JC			
METHOD: 624			
DATE/TIME: 10/14/93 12:52:00			
NOTES: * - Practical Quantitation Limit		ND - Not Detected	
NA - Not Analyzed			

COMMENTS:

**QUALITY ASSURANCE:** These analyses are performed in accordance with EPA guidelines for quality assurance.  
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Certificate of Analysis No. 9310274-10

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

10/19/93

PROJECT: Grayhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: B

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 11:30:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA RESULTS, PQL\*, UNITS. Lists various chemical parameters like Benzene, Bromodichloromethane, etc., with their respective results (ND) and PQL values (5 or 10) in units of µg/L.

METHOD: 624
(continued on next page)



Certificate of Analysis No. 9310274-10

Engineering Science, Inc.

SAMPLE ID: B

PARAMETER	ANALYTICAL DATA (continued)		UNITS
	RESULTS	PQL*	

ANALYZED BY: JC

DATE/TIME: 10/14/93 13:32:00

METHOD: 624

NOTES: \* - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

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SPL, Inc., - Shari L. Grice



Certificate of Analysis No. 9310274-11

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: C

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 11:30:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA RESULTS, PQL\*, UNITS. Lists various chemical parameters like Benzene, Bromodichloromethane, etc., with their respective results and units.

METHOD: 624
(continued on next page)



Certificate of Analysis No. 9310274-11

Engineering Science, Inc.

SAMPLE ID: C

PARAMETER	ANALYTICAL DATA (continued)		UNITS
	RESULTS	PQL*	

ANALYZED BY: JC

DATE/TIME: 10/14/93 14:12:00

METHOD: 624

NOTES: \* - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

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SPL, Inc., - Shari L. Grice



Certificate of Analysis No. 9310274-12

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: BC-2

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 09:50:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include Benzene, Toluene, Ethylbenzene, Total Xylene, Total Volatile Aromatic Hydrocarbons, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), and Petroleum Hydrocarbons-Diesel.

ND - Not detected. (P) - Practical Quantitation Limit

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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SPL, Inc., - Shari L. Grice



Certificate of Analysis No. 9310274-13

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, New York 13088
ATTN: D. Nickerson

DATE: 10/19/93

PROJECT: Greyhound Lines, Inc.
SITE: Oakland, California
SAMPLED BY: Engineering Science
SAMPLE ID: BC-3

PROJECT NO: 54360.18
MATRIX: LIQUID
DATE SAMPLED: 10/07/93 10:00:00
DATE RECEIVED: 10/08/93

Table with columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include Benzene, Toluene, Ethylbenzene, Total Xylene, Total Volatile Aromatic Hydrocarbons, Surrogate (1,4-Difluorobenzene, 4-Bromofluorobenzene), and Petroleum Hydrocarbons-Diesel.

ND - Not detected. (P) - Practical Quantitation Limit

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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