PARSONS ENGINEERING SCIENCE, INC.

290 Elwood Davis Road, Suite 312 • Liverpool, New York 13088 • (315) 451-9560 • Fax (315) 451-9570

December 5, 1995

Ms. Susan Hugo
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: Quarterly Status Report
Greyhound Terminal (Location No. 8934)
Oakland, California

Dear Ms. Hugo:

On behalf of Greyhound Lines, Inc. (Greyhound), Parsons Engineering Science, Inc. (Parsons ES) is pleased to present the October Quarterly Status Report for the Greyhound terminal in Oakland, California. The Quarterly Status Report provides the information specified in "Appendix A" of the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August 1990). Greyhound has reviewed and approved the enclosed report, and agrees with the conclusions and recommendations provided in the report. The report also serves as the October 1995 monthly monitoring report.

Ten groundwater samples were collected at the Oakland facility on October 5 and 6, 1995, and analyzed for BTEX compounds (EPA Method 8020), total diesel petroleum hydrocarbons (TPH-D, Modified EPA Method 8015), and total gasoline petroleum hydrocarbons (TPH-G, Modified EPA Method 8015). Monitoring well locations are shown in Figure 1 of the Quarterly Status Report. Analytical results are summarized in Table 2.

The next groundwater sampling event will be conducted in January 1996. Wells will be sampled in accordance with the recent sampling modifications agreed to between ACDEH and Greyhound during a meeting on October 13, 1995 as outlined in a letter from Greyhound to ACDEH dated October 31, 1995. The Alameda County Department of Environmental Health (ACDEH) will be notified at least one week prior to the sampling event so that a representative from ACDEH may be onsite when the samples are collected. The next quarterly status report will be prepared and submitted to your department on or before February 15, 1996.

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

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.

David A. Nickerson
Project Manager

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

DAN/DLC/lml

cc: R. Felton, GLI, Dallas, TX
Kevin Graves, Regional Water Quality Control Board

# OCTOBER 1995
# QUARTERLY STATUS REPORT
# GREYHOUND TERMINAL
# OAKLAND, CALIFORNIA

- **Site Background:**

A preliminary site investigation was completed by Engineering-Science, Inc. (ES) in January 1992. Five monitoring wells (ES-1 through ES-5 in Figure 1) were installed on site and sampled during the investigation. 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 was initiated by Greyhound in June 1992 to assess the impact of former UST operations on groundwater. The program includes monthly groundwater level measurements, quarterly groundwater sampling, and reporting.

Based on the presence of measurable thicknesses of free product discovered in four onsite monitoring wells, 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).

In a letter to Greyhound dated October 23, 1992, ACDEH requested that Greyhound provide documentation regarding the underground fuel storage tank system (UST) removal, including disposal documentation. Greyhound subsequently prepared a Tank Closure Documentation Report for the facility. The report was submitted to ACDEH on December 15, 1992.

In July 1993, Greyhound implemented a Supplemental Site Assessment at the facility to define the full extent of contamination both on and off site. Six monitoring wells (ES-6 through ES-11 in Figure 1) were installed and sampled during the investigation. 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 submitted a Preliminary Risk Evaluation Report to ACDEH in October 1993. A Supplemental Site Assessment Report was submitted in November 1993.

- **Water level measurements from most recent sampling event:**

  Monitoring well data obtained on October 5 and 6, 1995 are presented in Table 1. Groundwater elevations determined from the water level measurements are shown in Figure 2. The elevations indicate that the groundwater flow direction across the site is generally southward. Groundwater elevation contours were not drawn because of significant drawdown in the area of the recovery wells.

- **Water level measurements from previous monitoring visits:**

  Monitoring well data obtained during prior quarterly sampling events are presented in Attachment B. Free product thicknesses have been eliminated or significantly reduced in the four onsite recovery wells (ES-1, ES-2, ES-5, and BC-1) since the product recovery system was activated in January 1993.

- **Analytical results from most recent sampling event:**

  Results from the groundwater samples collected in October 1995 are summarized in Table 2. Ten of the 16 monitoring wells located on or near the site were sampled. Monitoring wells MW-3, MW-6 through MW-10, BC-2, and BC-3 were sampled on October 5. Monitoring wells MW-4 and MW-11 were sampled on October 6. Other existing wells were not sampled because they are part of the hydrocarbon recovery system (ES-1, ES-2, ES-5 and BC-1) or their construction is not known (No. 65 and No. 66). The samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method 8020; for total diesel petroleum hydrocarbons (TPH-D) by Modified EPA Method 8015; and for total gasoline petroleum hydrocarbons (TPH-G) by Modified EPA Method 8015. Laboratory reports including chain-of-custody documentation, are included in Attachment A.

  BTEX compounds were only detected in three of the samples. Benzene (2 $\mu$g/l) and toluene (2 $\mu$g/l) were detected in sample ES-3. Benzene (210 $\mu$g/l), toluene (16 $\mu$g/l), ethylbenzene (71 $\mu$g/l), and xylenes (84 $\mu$g/l) were detected in sample ES-4. Benzene (1 $\mu$g/l) and xylene (1 $\mu$g/l) were detected in sample BC-2.

  TPH-D was detected in samples ES-3 (0.11 mg/l), ES-4 (0.17 mg/l), and BC-2 (1.5 mg/l). TPH-D was not detected in the other seven samples. TPH-G was detected in sample ES-4 (1.2 mg/l). TPH-G was not detected in the other nine samples.

- **Analytical results from previous sampling events:**

  A summary of the analytical results from previous groundwater sampling events is presented in Attachment C. Table 3 is a summary of the analytical data from previously collected soil samples.

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

  Figure 3 shows the analytical results from the most recent groundwater sampling event. The figure indicates the extent of groundwater contamination.

  Figure 4 shows the analytical results from soil samples collected during the preliminary site investigation (November 1991) and the supplemental site assessment (July 1993). The figure indicates that soil contamination is limited to the area near sample locations ES-1, ES-2, and ES-5.

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

  Greyhound has not prepared an estimate of the remaining volume of residual soil contamination, based on the recommendation presented in the Supplemental Site Assessment Report that no soil remediation be conducted at the site.

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

  In October 1992, Greyhound proposed a free product recovery system to remove free product discovered in four onsite wells. A hydrocarbon recovery system was installed in November 1992 after receiving approval from Ms. Susan Hugo (ACDEH). The recovery system was activated during the week of January 4, 1993.

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

  With the exception of a brief shutdown between October 6 and October 21, 1993 due to an air compressor problem, the product recovery system has been active since startup. The system is inspected daily by onsite personnel and monthly during monitoring visits by Parsons ES personnel.

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

  To date, approximately 1,015 gallons of free product and contaminated groundwater have been recovered and properly disposed off site by Safety Clean, Inc. and Evergreen Vacuum Services, State of California-certified waste haulers. No additional product product has been recovered since the September 1994 monitoring period. In addition, 80,750 gallons of carbon-treated groundwater have been processed through the recovery system on site and discharged to the sanitary sewer under a permit issued by EBMUD.

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

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

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

  In November 1993, based on the results of the Supplemental Site Assessment and Preliminary Risk Evaluation, Greyhound proposed: (1) to continue free product recovery at the site; (2) to continue the groundwater monitoring program, including monthly water level measurements, quarterly groundwater sampling and analysis, and reporting; and (3) that site-specific cleanup levels be established for the site based on the non-attainment area for groundwater contamination.

  The next quarterly status report will be prepared and submitted to ACDEH on or before February 15, 1996.

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

  Greyhound anticipates that the groundwater monitoring program will continue until free product has been removed from the groundwater. After the free product has been removed, a long-term groundwater monitoring program will be proposed to ensure that residual contaminants do not migrate off site.

- **Tank owner commitment letter:**

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

TABLE 1

MONITORING WELL DATA SUMMARY
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA
October 5 and 6, 1995

| Location | Elevation of T.O.C[1] (Ft.) | Depth to Groundwater (Ft.) | Groundwater Elevation[2] (Ft.) | Product Layer Thickness (Ft.) |
|---|---|---|---|---|
| ES-1[3] | 96.64 | 18.01 | 78.63 | 0 |
| ES-2[3] | 96.44 | 18.45 | 77.99 | 0.03 |
| ES-3 | 96.96 | 18.76 | 78.20 | 0 |
| ES-4 | 95.70 | 17.84 | 77.86 | 0 |
| ES-5[3] | 95.85 | 18.74 | 77.11 | 0 |
| ES-6 | 97.84 | 21.14 | 76.70 | 0 |
| ES-7 | 96.40 | 19.15 | 77.25 | 0 |
| ES-8 | 96.64 | 18.27 | 78.37 | 0 |
| ES-9 | 95.78 | 17.09 | 78.69 | 0 |
| ES-10 | 95.24 | 16.59 | 78.65 | 0 |
| ES-11 | 95.92 | 18.20 | 77.72 | 0 |
| BC-1[3,4] | 96.16 | 18.23 | 77.93 | 0 |
| BC-2[4] | 96.32 | 18.24 | 78.08 | 0 |
| BC-3[4] | 96.20 | 17.95 | 78.25 | 0 |

[1] Elevations of top of PVC casing measured with respect to on-site datum (97.50 feet, measured on steel grate for storm sewer near wash rack).

[2] Groundwater elevation (Elevation of T.O.C. – depth to groundwater).

[3] Recovery Wells.

[4] Approximate elevation – well casings not vertical.

BC = Wells constructed by Brown and Caldwell, Inc., during during earlier phases of investigation.

## TABLE 2

## GROUNDWATER ANALYTICAL RESULTS
## GREYHOUND TERMINAL, OAKLAND, CALIFORNIA
## OCTOBER 5 and 6, 1995

| Location | Date Collected | Parameter | Result | Detection Limit |
|---|---|---|---|---|
| ES-3 | 10/05 | Benzene[1] | 2 | 0.3 ug/L |
| | | Toluene[1] | 2 | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH-D[2] | 0.11 | 0.1 mg/L |
| | | TPH-G[3] | ND | 0.1 mg/L |
| ES-4 | 10/06 | Benzene[1] | 210 | 1 ug/L |
| | | Toluene[1] | 16 | 1 ug/L |
| | | Ethylbenzene[1] | 71 | 1 ug/L |
| | | Xylenes (total)[1] | 84 | 1 ug/L |
| | | TPH-D[2] | 0.17 | 0.1 mg/L |
| | | TPH-G[3] | 1.2 | 0.1 mg/L |
| ES-6 | 10/05 | Benzene[1] | ND | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH-D[2] | ND | 0.1 mg/L |
| | | TPH-G[3] | ND | 0.1 mg/L |
| ES-7 | 10/05 | Benzene[1] | ND | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH-D[2] | ND | 0.1 mg/L |
| | | TPH-G[3] | ND | 0.1 mg/L |
| ES-8 | 10/05 | Benzene[1] | ND | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH-D[2] | ND | 0.1 mg/L |
| | | TPH-G[3] | ND | 0.1 mg/L |
| ES-9 | 10/05 | Benzene[1] | ND | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH-D[2] | ND | 0.1 mg/L |
| | | TPH-G[3] | ND | 0.1 mg/L |

**TABLE 2**
**(Continued)**

| Location | Date Collected | Parameter | Result | Detection Limit |
|---|---|---|---|---|
| ES–10 | 10/05 | Benzene[1] | ND | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH–D[2] | ND | 0.1 mg/L |
| | | TPH–G[3] | ND | 0.1 mg/L |
| ES–11 | 10/06 | Benzene[1] | ND | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH–D[2] | ND | 0.1 mg/L |
| | | TPH–G[3] | ND | 0.1 mg/L |
| BC–2 | 10/05 | Benzene[1] | 1 | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | 1 | 0.6 ug/L |
| | | TPH–D[2] | 1.5 | 0.1 mg/L |
| | | TPH–G[3] | ND | 0.1 mg/L |
| BC–3 | 10/05 | Benzene[1] | ND | 0.3 ug/L |
| | | Toluene[1] | ND | 0.3 ug/L |
| | | Ethylbenzene[1] | ND | 0.3 ug/L |
| | | Xylenes (total)[1] | ND | 0.6 ug/L |
| | | TPH–D[2] | ND | 0.1 mg/L |
| | | TPH–G[3] | ND | 0.1 mg/L |

Notes:

[1] Analyzed by EPA Method 8020. Concentrations in ug/l.

[2] Analyzed by DHS/LUFT Method Modified EPA 8015 for Diesel. Concentrations in mg/l.

[3] Analyzed by DHS/LUFT Method Modified EPA 8015 for Gasoline. Concentrations in mg/l.

ND – Not detected above the practical quantitation limit.

NA – Not analyzed, sample bottle broken during shipping.

BC – Wells constructed by Brown and Caldwell, Inc. during earlier phases of investigation.

TABLE 3

SOIL ANALYTICAL DATA SUMMARY
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA

| Location Sample Depth | Date | Benzene ug/kg | Toluene ug/kg | Ethylbenzene ug/kg | Xylene ug/kg | Total BTEX [1] ug/kg | TPH-D [2] mg/kg | TPH-G [3] 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.

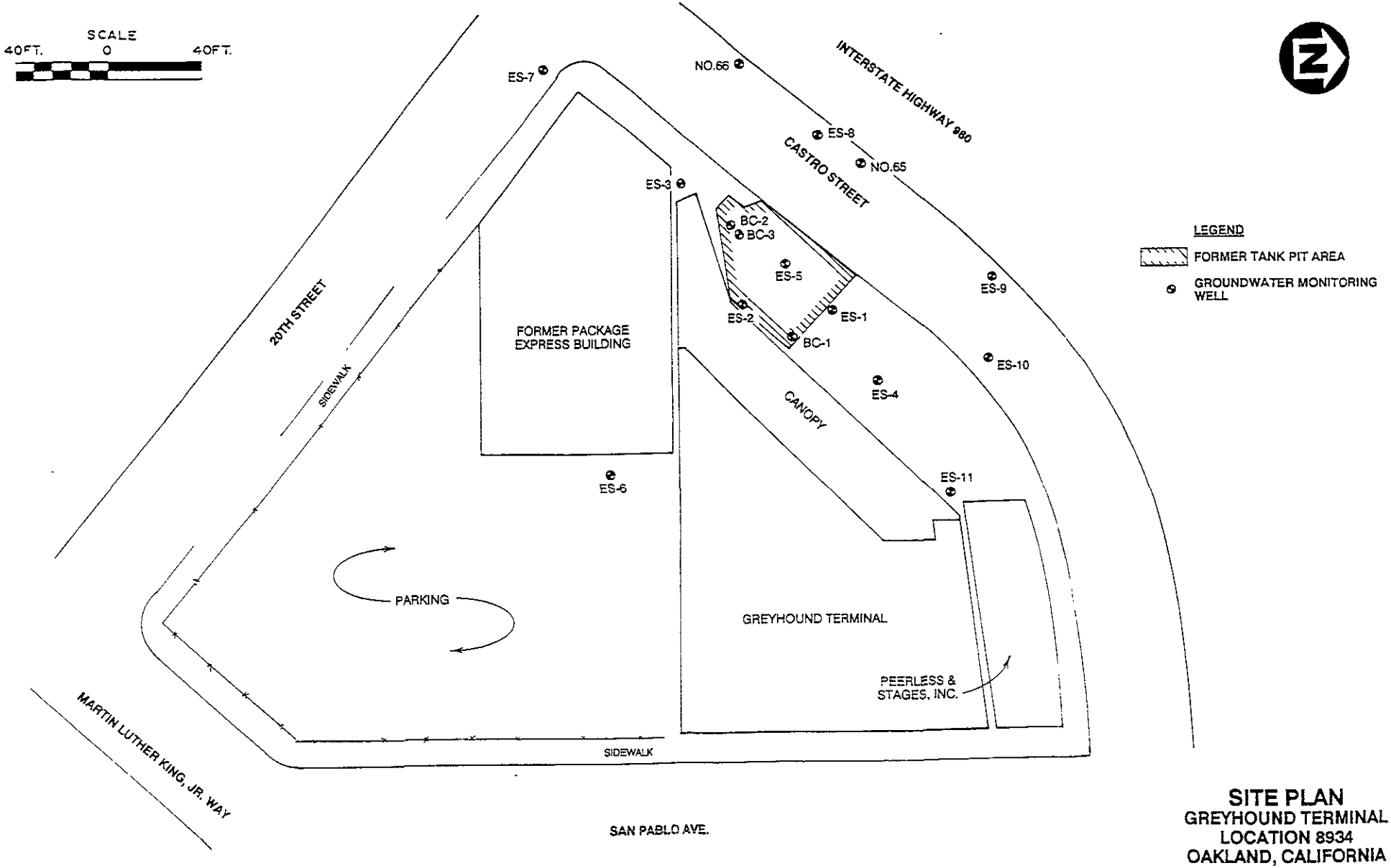
ND - Non-detect; sample analyzed but did not exceed Method Detection Limit.

[1] Total BTEX = analyzed by EPA Method 8020. Results reported in ug/kg. Refer to analytical laboratory reports for method detection limits.

[2] TPH-D = 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.

[3] TPH-G = 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.

FIGURE 1




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

SY356 06

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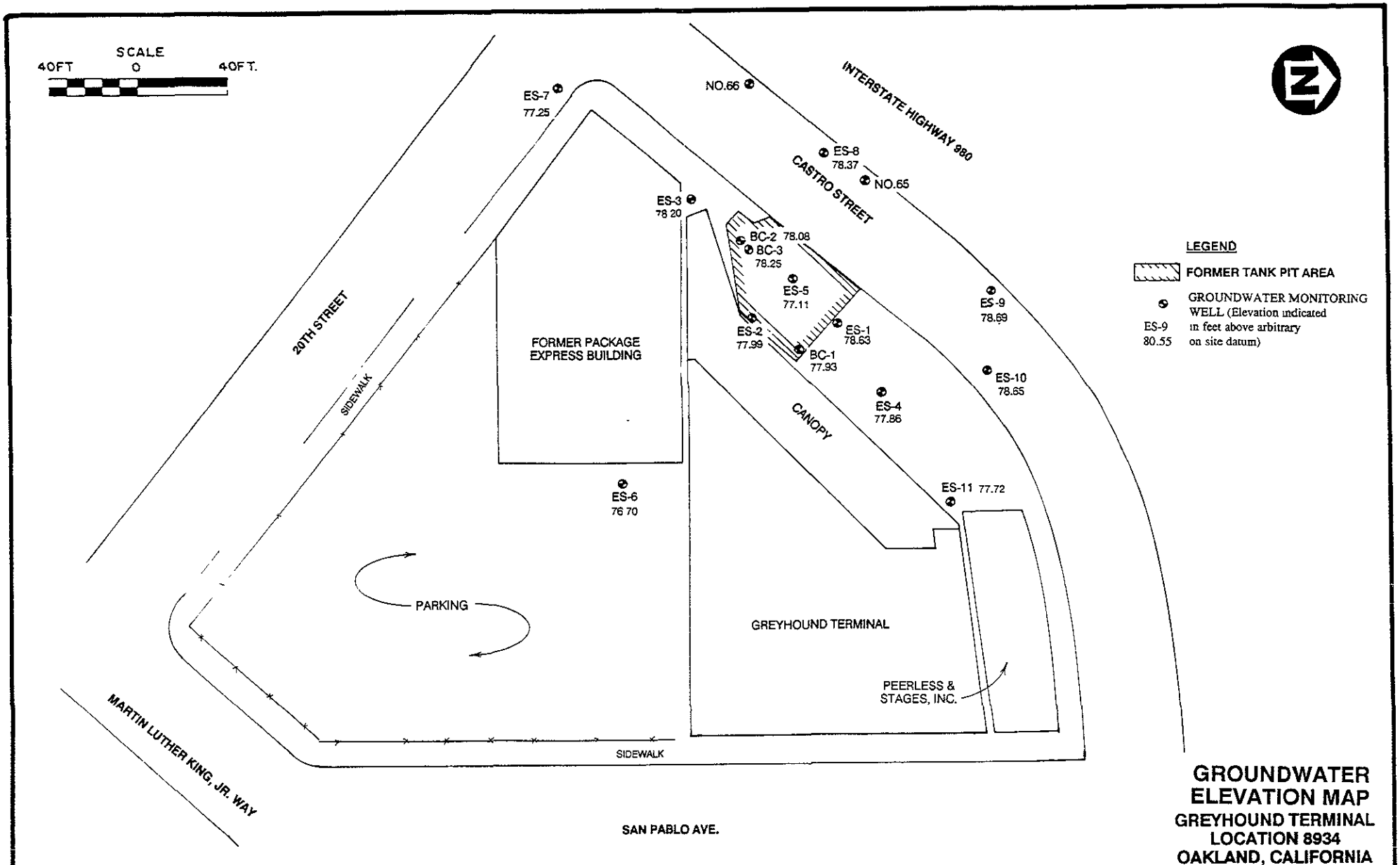
FIGURE 2




# GROUNDWATER ELEVATION MAP

## GREYHOUND TERMINAL
## LOCATION 8934
## OAKLAND, CALIFORNIA

OCTOBER 5 AND 6, 1995

SY356.06

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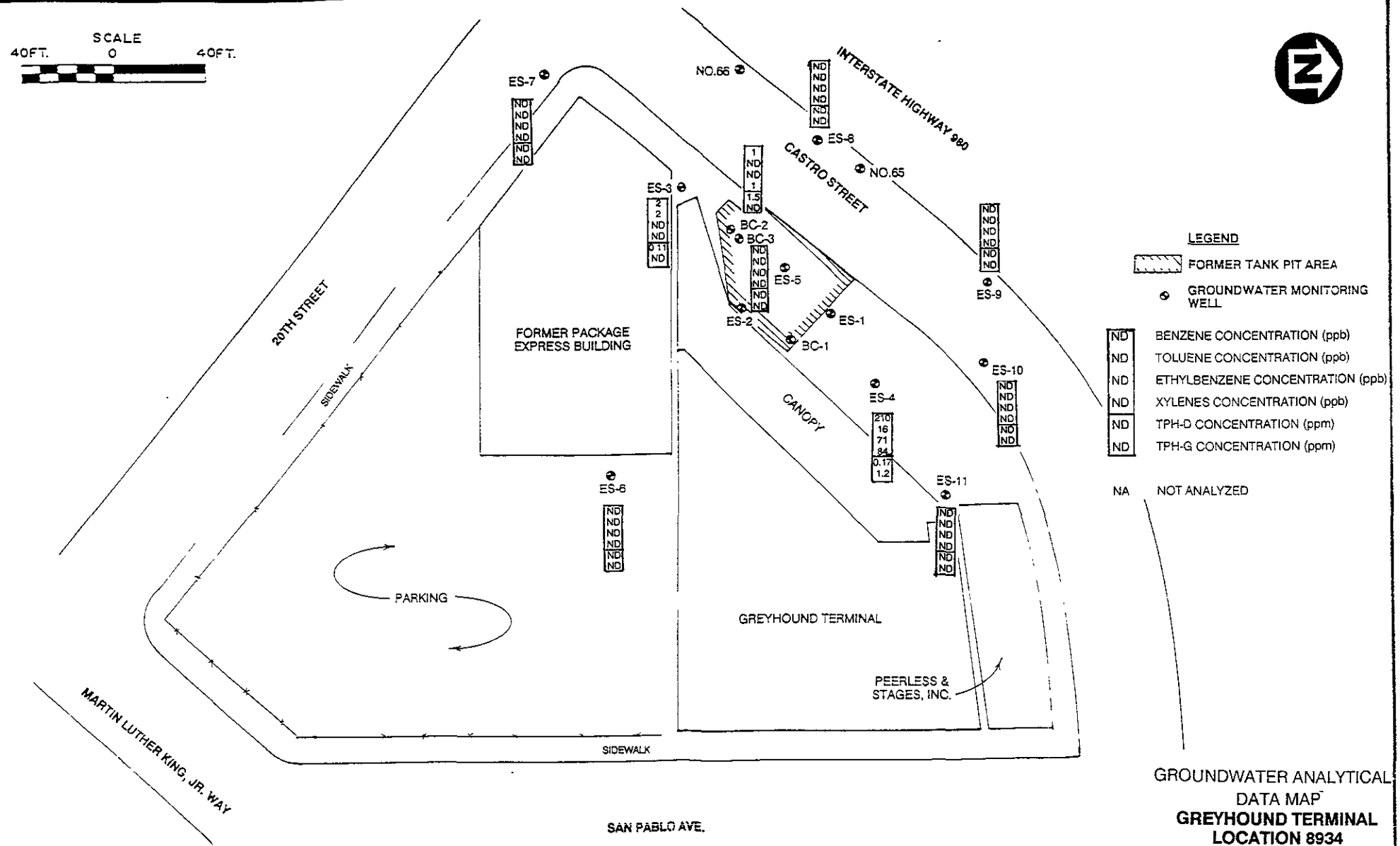
FIGURE 3




GROUNDWATER ANALYTICAL DATA MAP

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

OCTOBER 5 AND 6, 1995

SY356 06

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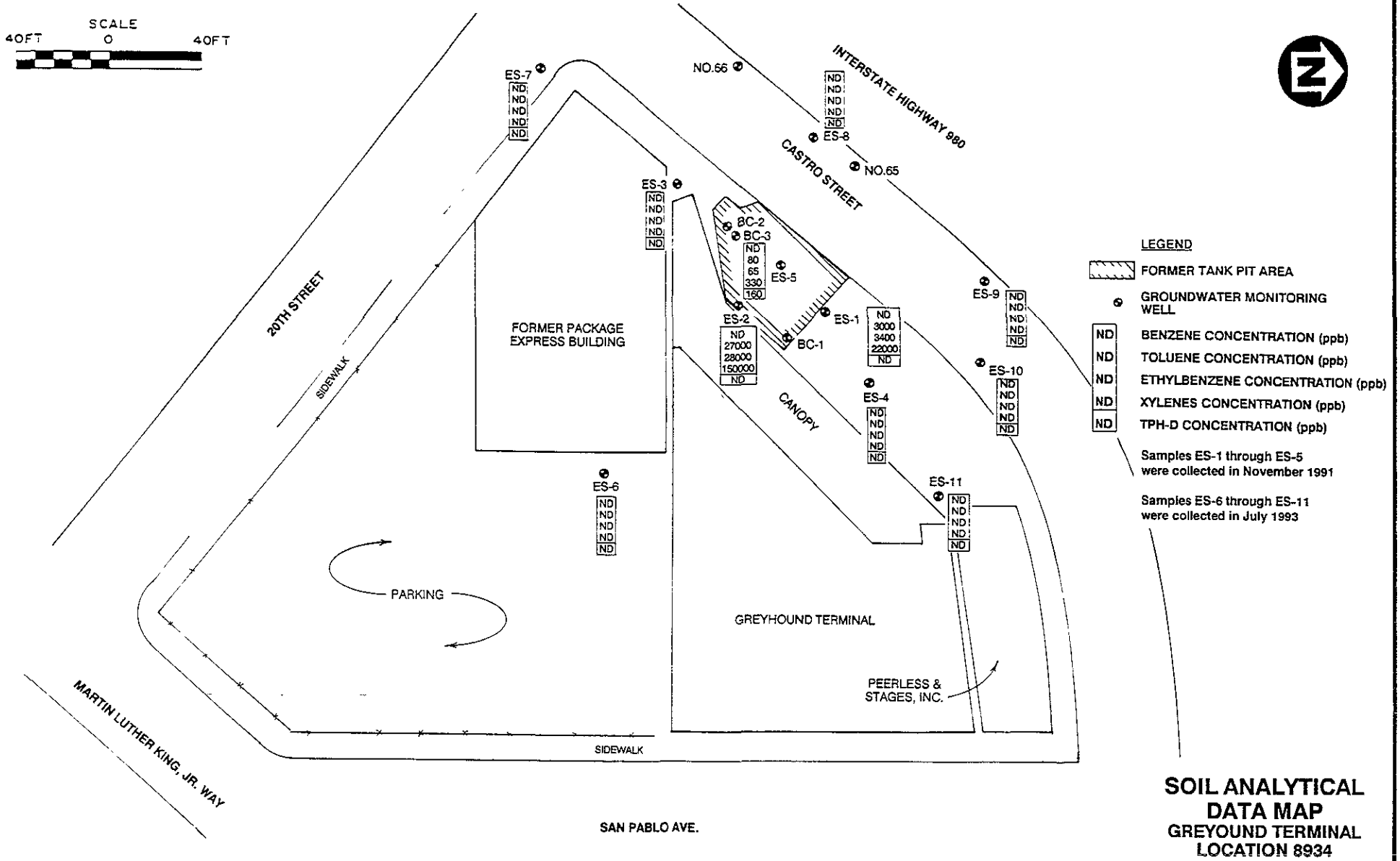
FIGURE 4




# SOIL ANALYTICAL DATA MAP
## GREYOUND TERMINAL
## LOCATION 8934
## OAKLAND, CALIFORNIA

SY356 06

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# ATTACHMENT A

# ANALYTICAL DATA REPORTS

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

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OCT 1995
ES SYRACUSE

*SPL, INC.*

*REPORT APPROVAL SHEET*

*WORK ORDER NUMBER:* 95 - 10 - 295

*Approved for release by:*

M. Scott Sample

*M. Scott Sample, Laboratory Director* *Date:* 10/17/95

Karen Satterfield

*Karen Satterfield, Project Manager* *Date:* 10/17/95

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-01

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-6

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 10:00:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 101 | | |
| 4-Bromofluorobenzene | 100 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 92 | | |
| 4-Bromofluorobenzene | 87 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | ND | 0.1 P | mg/L |

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, 18th 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

Ken Satterfield
SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-01

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-6

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 10:00:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 89 | | |
| 2-Fluorobiphenyl | 84 | | |
| Mod. 8015 - Diesel<br>Analyzed by: SEG<br>Date: 10/10/95 15:58:00 | | | |
| Liquid-liquid extraction<br>METHOD 3510 ***<br>Analyzed by: DB<br>Date: 10/09/95 10:00:00 | 10/09/95 | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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

Ken Sattayarak
SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-02

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-7

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 11:10:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 100 | | |
| 4-Bromofluorobenzene | 99 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 91 | | |
| 4-Bromofluorobenzene | 87 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | ND | 0.1 P | mg/L |

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, 18th 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

Ken Satterfield
SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-02

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-7

**PROJECT NO:** 727211.08934
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**DATE SAMPLED:** 10/05/95 11:10:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 86 | | |
| 2-Fluorobiphenyl | 83 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 16:33:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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.
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SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-03

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-8

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 12:10:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 102 | | |
| 4-Bromofluorobenzene | 101 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 92 | | |
| 4-Bromofluorobenzene | 87 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | ND | 0.1 P | mg/L |

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, 18th 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.
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SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-03

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-8

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 12:10:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 84 | | |
| 2-Fluorobiphenyl | 82 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 17:08:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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.
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SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-04

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-9

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 15:00:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 101 | | |
| 4-Bromofluorobenzene | 100 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 91 | | |
| 4-Bromofluorobenzene | 85 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | ND | 0.1 P | mg/L |

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, 18th 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.
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SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

**Certificate of Analysis No. H9-9510295-04**

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-9

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 15:00:00
**DATE RECEIVED:** 10/07/95

**ANALYTICAL DATA**

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 67 | | |
| 2-Fluorobiphenyl | 76 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 17:43:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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.
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Karen Dotterweich
SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-05

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-10

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 16:15:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 100 | | |
| 4-Bromofluorobenzene | 96 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 91 | | |
| 4-Bromofluorobenzene | 85 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | ND | 0.1 P | mg/L |

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, 18th 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.
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Kari Sattazahn
SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-05

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-10

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 16:15:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 77 | | |
| 2-Fluorobiphenyl | 80 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 18:18:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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.
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Ken Satterfield
SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-06

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-3

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 17:30:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | 2 | 0.3 P | µg/L |
| TOLUENE | 2 | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 4 | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 100 | | |
| 4-Bromofluorobenzene | 98 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 88 | | |
| 4-Bromofluorobenzene | 85 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | 0.11 | 0.1 P | mg/L |

(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, 18th 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.
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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

**Certificate of Analysis No. H9-9510295-06**

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-3

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 17:30:00
**DATE RECEIVED:** 10/07/95

**ANALYTICAL DATA**

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 120 | | |
| 2-Fluorobiphenyl | 85 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 18:53:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-07

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** BC-2

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 18:25:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | 1 | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | 1 | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 2 | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 100 | | |
| 4-Bromofluorobenzene | 100 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 91 | | |
| 4-Bromofluorobenzene | 86 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | 1.5 | 0.1 P | mg/L |

(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, 18th 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.
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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-07

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** BC-2

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 18:25:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 40 | | |
| 2-Fluorobiphenyl | 51 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/11/95 10:39:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-08

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** BC-3

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 18:15:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 99 | | |
| 4-Bromofluorobenzene | 100 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 91 | | |
| 4-Bromofluorobenzene | 86 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/10/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | ND | 0.1 P | mg/L |

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, 18th 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.
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Ken Satterfield
SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-08

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** BC-3

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/05/95 18:15:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 57 | | |
| 2-Fluorobiphenyl | 101 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 20:03:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-09

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-11

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/06/95 14:45:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | ND | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 100 | | |
| 4-Bromofluorobenzene | 99 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Petroleum Hydrocarbons - Gasoline | ND | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 91 | | |
| 4-Bromofluorobenzene | 86 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | ND | 0.1 P | mg/L |

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, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-09

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-11

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/06/95 14:45:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 80 | | |
| 2-Fluorobiphenyl | 102 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 20:38:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| *METHOD 3510* *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-10

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-4

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/06/95 15:50:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | 210 | 0.3 P | µg/L |
| TOLUENE | 16 | 0.3 P | µg/L |
| ETHYLBENZENE | 71 | 0.3 P | µg/L |
| TOTAL XYLENE | 84 | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 381 | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 122 | | |
| 4-Bromofluorobenzene | 93 | | |
| METHOD 8020*** | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Petroleum Hydrocarbons - Gasoline | 1.2 | 0.1 P | mg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 89 | | |
| 4-Bromofluorobenzene | 76 | | |
| Modified 8015 - Gasoline | | | |
| Analyzed by: YN | | | |
| Date: 10/11/95 | | | |
| Total Petroleum Hydrocarbons-Diesel | 0.17 | 0.1 P | mg/L |

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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.
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SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-10

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Engineering Science
**SAMPLE ID:** MW-4

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 10/06/95 15:50:00
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| **Surrogate** | **% Recovery** | | |
| o-Terphenyl | 102 | | |
| 2-Fluorobiphenyl | 91 | | |
| Mod. 8015 - Diesel | | | |
| Analyzed by: SEG | | | |
| Date: 10/10/95 21:13:00 | | | |
| Liquid-liquid extraction | 10/09/95 | | |
| METHOD 3510 *** | | | |
| Analyzed by: DB | | | |
| Date: 10/09/95 10:00:00 | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th 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

K Dallagnes

SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510295-11

Engineering Science, Inc.
290 Elwood Davis Rd
Liverpool, NY 13088
ATTN: Martin Miller

DATE: 10/17/95

**PROJECT:** Greyhound Oakland
**SITE:**
**SAMPLED BY:** Provided by SPL
**SAMPLE ID:** Trip Blank

**PROJECT NO:** 727211.08934
**MATRIX:** WATER
**DATE SAMPLED:** 09/28/95
**DATE RECEIVED:** 10/07/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 0.3 P | µg/L |
| TOLUENE | ND | 0.3 P | µg/L |
| ETHYLBENZENE | ND | 0.3 P | µg/L |
| TOTAL XYLENE | 1 | 0.6 P | µg/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 1 | | µg/L |

| Surrogate | % Recovery |
|---|---|
| 1,4-Difluorobenzene | 101 |
| 4-Bromofluorobenzene | 101 |

METHOD 8020***
Analyzed by: YN
Date: 10/11/95

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, 18th 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.
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SPL, Inc., - Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

# Certificate of Analysis No. H9-9510378-01

Law Environmental
13831 NW Frwy, Suite 450
Houston, TX 77040
ATTN: Fred Early

P.O.#
Subcontract No. 88573
DATE: 10/17/95

**PROJECT:** EMRO Spring
**SITE:** Spring, TX
**SAMPLED BY:** Law Environmental
**SAMPLE ID:** S-95-11

**PROJECT NO:** 60170-5-5018
**MATRIX:** WATER
**DATE SAMPLED:** 10/10/95 11:00:00
**DATE RECEIVED:** 10/10/95

## ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|---|---|---|---|
| BENZENE | ND | 1 P | µg/L |
| TOLUENE | ND | 1 P | µg/L |
| ETHYLBENZENE | ND | 1 P | µg/L |
| TOTAL XYLENE | ND | 1 P | µg/L |
| TOTAL BTEX | ND | | µg/L |
| **Surrogate** | **% Recovery** | | |
| 1,4-Difluorobenzene | 100 | | |
| 4-Bromofluorobenzene | 99 | | |
| METHOD 5030/8020 *** | | | |
| Analyzed by: SB | | | |
| Date: 10/14/95 | | | |
| Petroleum extractables | ND | 0.5 | mg/L |
| METHOD 418.1* | | | |
| Analyzed by: MF | | | |
| Date: 10/12/95 13:00:00 | | | |

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, 18th 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, Inc., - Project Manager

# *QUALITY CONTROL*

# *DOCUMENTATION*

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
Mod. 8015 - Diesel



Matrix: Aqueous
Units: mg/L

Batch Id: HPTT951010152310

## LABORATORY CONTROL SAMPLE

| SPIKE COMPOUNDS | Method Blank Result <2> | Spike Added <3> | Blank Spike Result <1> | Blank Spike Recovery % | QC Limits(**) (Mandatory) % Recovery Range |
|---|---|---|---|---|---|
| Petroleum Hydrocarbons-Die | ND | 5.0 | 5.08 | 102 | 20 - 130 |

## MATRIX SPIKES

| SPIKE COMPOUNDS | Sample Results <2> | Spike Added <3> | Matrix Spike Result <1> | Matrix Spike Recovery <4> | Matrix Spike Duplicate Result <1> | Matrix Spike Duplicate Recovery <5> | MS/MSD Relative % Difference | QC Limits(***) (Advisory) RPD Max. | QC Limits(***) (Advisory) Recovery Range |
|---|---|---|---|---|---|---|---|---|---|
| PETROLEUM HYDROCARBONS-DIE | 4.96 | 5.0 | 9.06 | 82.0 | 8.91 | 79.0 | 3.73 | 43 | 20 - 177 |

Analyst: SEG
Sequence Date: 10/11/95
SPL ID of sample spiked: 9510075-01B
Sample File ID: T___452.TX0
Method Blank File ID:
Blank Spike File ID: T___477.TX0
Matrix Spike File ID: T___444.TX0
Matrix Spike Duplicate File ID: T___445.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [( <1> - <2> ) / <3> ] x 100
LCS % Recovery = (<1> / <3> ) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5> ) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data
(***) = Source:

SAMPLES IN BATCH(SPL ID): 9510295-01B 9510295-07B 9510295-02B 9510295-03B 9510295-04B 9510295-05B 9510295-06B 9510295-08B 9510295-09B 9510295-10B

QC Officer

SPL

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020/602



Matrix: Aqueous
Units: µg/L

Batch Id: HP_N951010095700

## LABORATORY CONTROL SAMPLE

| SPIKE COMPOUNDS | Method Blank Result <2> | Spike Added <3> | Blank Spike Result <1> | Blank Spike Recovery % | QC Limits(**) (Mandatory) % Recovery Range |
|---|---|---|---|---|---|
| MTBE | ND | 50 | 44 | 88.0 | 56 - 135 |
| Benzene | ND | 50 | 38 | 76.0 | 61 - 123 |
| Toluene | ND | 50 | 41 | 82.0 | 62 - 122 |
| EthylBenzene | ND | 50 | 46 | 92.0 | 56 - 119 |
| O Xylene | ND | 50 | 48 | 96.0 | 32 - 160 |
| M & P Xylene | ND | 100 | 96 | 96.0 | 32 - 160 |

## MATRIX SPIKES

| SPIKE COMPOUNDS | Sample Results <2> | Spike Added <3> | Matrix Spike Result <1> | Matrix Spike Recovery <4> | Matrix Spike Duplicate Result <1> | Matrix Spike Duplicate Recovery <5> | MS/MSD Relative % Difference | QC Limits(***) (Advisory) RPD Max. | QC Limits(***) (Advisory) Recovery Range |
|---|---|---|---|---|---|---|---|---|---|
| MTBE | ND | 20 | 27 | 135 | 28 | 140 | 3.64 | 20 | 39 - 150 |
| BENZENE | ND | 20 | 24 | 120 | 24 | 120 | 0 | 25 | 39 - 150 |
| TOLUENE | ND | 20 | 23 | 115 | 25 | 125 | 8.33 | 26 | 56 - 134 |
| ETHYLBENZENE | ND | 20 | 25 | 125 | 24 | 120 | 4.08 | 38 | 61 - 128 |
| O XYLENE | ND | 20 | 25 | 125 | 25 | 125 | 0 | 29 | 40 - 130 |
| M & P XYLENE | ND | 40 | 48 | 120 | 49 | 122 | 1.65 | 20 | 43 - 152 |

Analyst: YN
Sequence Date: 10/10/95
SPL ID of sample spiked: 9510295-02A
Sample File ID: NN__902.TX0
Method Blank File ID:
Blank Spike File ID: NN__883.TX0
Matrix Spike File ID: NN__912.TX0
Matrix Spike Duplicate File ID: NN__913.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [( <1> - <2> ) / <3> ] x 100
LCS % Recovery = (<1> / <3> ) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5> ) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data
(***) = Source:

SAMPLES IN BATCH(SPL ID):

9510244-03A 9510116-08A 9510119-03A 9510326-01A
9510295-01A 9510295-02A 9510295-03A 9510295-06A
9510295-07A 9510295-08A 9510339-03A 9510339-05A
9510339-01A 9510242-09A 9510326-02A 9510244-01A
9510244-02A

QC Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
Modified 8015 - Gasoline



Matrix: Aqueous
Units: mg/L

Batch Id: HP_N951010194500

## LABORATORY CONTROL SAMPLE

| SPIKE COMPOUNDS | Method Blank Result <2> | Spike Added <3> | Blank Spike Result <1> | Blank Spike Recovery % | QC Limits(**) (Mandatory) % Recovery Range |
|---|---|---|---|---|---|
| Petroleum Hydrocarbons | ND | 1.00 | 0.88 | 88.0 | 56 - 139 |

## MATRIX SPIKES

| SPIKE COMPOUNDS | Sample Results <2> | Spike Added <3> | Matrix Spike Result <1> | Matrix Spike Recovery <4> | Matrix Spike Duplicate Result <1> | Matrix Spike Duplicate Recovery <5> | MS/MSD Relative % Difference | QC Limits(***) (Advisory) RPD Max. | QC Limits(***) (Advisory) Recovery Range |
|---|---|---|---|---|---|---|---|---|---|
| PETROLEUM HYDROCARBONS | ND | 0.9 | 1.01 | 112 | 0.94 | 104 | 7.41 | 18 | 40 - 158 |

Analyst: YN
Sequence Date: 10/10/95
SPL ID of sample spiked: 9510295-01A
Sample File ID: N___901.TX0
Method Blank File ID:
Blank Spike File ID: N___897.TX0
Matrix Spike File ID: N___914.TX0
Matrix Spike Duplicate File ID: N___915.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [( <1> - <2> ) / <3> ] x 100
LCS % Recovery = (<1> / <3> ) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5> ) x 0.5] x 100
(**) = Source: SPL Historical data
(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID): 9510295-08A 9510295-01A 9510295-02A 9510295-03A 9510295-06A 9510295-07A

QC Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020



Matrix: Aqueous
Units: µg/L

Batch Id: HP_N951011040100

## LABORATORY CONTROL SAMPLE

| SPIKE COMPOUNDS | Method Blank Result <2> | Spike Added <3> | Blank Spike Result <1> | Blank Spike Recovery % | QC Limits(**) (Mandatory) % Recovery Range |
|---|---|---|---|---|---|
| Benzene | ND | 50 | 56 | 112 | 61 - 123 |
| Toluene | ND | 150 | 160 | 107 | 62 - 122 |
| EthylBenzene | ND | 50 | 59 | 118 | 56 - 119 |
| O Xylene | ND | 100 | 120 | 120 | 32 - 160 |
| M & P Xylene | ND | 200 | 230 | 115 | 32 - 160 |

## MATRIX SPIKES

| SPIKE COMPOUNDS | Sample Results <2> | Spike Added <3> | Matrix Spike Result <1> | Matrix Spike Recovery <4> | Matrix Spike Duplicate Result <1> | Matrix Spike Duplicate Recovery <5> | MS/MSD Relative % Difference | QC Limits(***) (Advisory) RPD Max. | QC Limits(***) (Advisory) Recovery Range |
|---|---|---|---|---|---|---|---|---|---|
| BENZENE | ND | 50 | 66 | 132 | 65 | 130 | 1.53 | 25 | 39 - 150 |
| TOLUENE | ND | 150 | 190 | 127 | 190 | 127 | 0 | 26 | 56 - 134 |
| ETHYLBENZENE | ND | 50 | 64 | 128 | 64 | 128 | 0 | 38 | 61 - 128 |
| O XYLENE | ND | 100 | 120 | 120 | 120 | 120 | 0 | 20 | 40 - 130 |
| M & P XYLENE | ND | 100 | 130 | 130 | 130 | 130 | 0 | 20 | 43 - 152 |

Analyst: YN
Sequence Date: 10/11/95
SPL ID of sample spiked: 9510297-01A
Sample File ID: NN__922.TX0
Method Blank File ID:
Blank Spike File ID: NN__916.TX0
Matrix Spike File ID: NN__944.TX0
Matrix Spike Duplicate File ID: NN__945.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [( <1> - <2> ) / <3> ] x 100
LCS % Recovery = (<1> / <3> ) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5> ) x 0.5] x 100
(**) = Source:
(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9510297-04A 9510298-01A 9510297-05A 9510297-06A
9510326-03A 9510339-02A 9510339-04A 9510339-06A
9510174-04A 9510295-05A 9510295-09A 9510295-04A
9510297-03A 9510233-01A 9510295-11A 9510295-10A
9510297-01A 9510297-02A 9510389-06A

QC Officer

PAGE **HOUSTON LABORATORY**
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
State of Tennessee Method

Matrix: Aqueous
Units: mg/L

Batch Id: HP_N951011042900

## LABORATORY CONTROL SAMPLE

| SPIKE COMPOUNDS | Method Blank Result <2> | Spike Added <3> | Blank Spike Result <1> | Blank Spike Recovery % | QC Limits(**) (Mandatory) % Recovery Range |
|---|---|---|---|---|---|
| Gasoline Range Organics | ND | 1.00 | 1.10 | 110 | 56 - 139 |

## MATRIX SPIKES

| SPIKE COMPOUNDS | Sample Results <2> | Spike Added <3> | Matrix Spike Result <1> | Matrix Spike Recovery <4> | Matrix Spike Duplicate Result <1> | Matrix Spike Duplicate Recovery <5> | MS/MSD Relative % Difference | QC Limits(***) (Advisory) RPD Max. | QC Limits(***) (Advisory) Recovery Range |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS | ND | 0.9 | 0.95 | 106 | 0.95 | 106 | 0 | 18 | 40 - 158 |

Analyst: YN
Sequence Date: 10/11/95
SPL ID of sample spiked: 9510297-01A
Sample File ID: N___922.TX0
Method Blank File ID:
Blank Spike File ID: N___916.TX0
Matrix Spike File ID: N___944.TX0
Matrix Spike Duplicate File ID: N___945.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [( <1> - <2> ) / <3> ] x 100
LCS % Recovery = (<1> / <3> ) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5> ) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data
(***) = Source:

SAMPLES IN BATCH(SPL ID):

9510297-04A 9510298-01A 9510297-05A 9510297-06A
9510295-05A 9510295-09A 9510295-04A 9510297-03A
9510233-01A 9510295-11A 9510295-10A 9510297-01A
9510297-02A

QC Officer

*CHAIN OF CUSTODY*

*AND*

*SAMPLE RECEIPT CHECKLIST*

TC 10/7

9510295 B

Page 1 of 1

**Environmental Laboratory**
8880 Interchange Drive
Houston, Texas 77054
713/660-0901

# Analysis Request and Chain of Custody Record

| Project No | Client/Project Name | Project Location |
|---|---|---|
| 72721 . 68934 | Parsons ES | Emeryville Oakland |

| Field Sample No./ Identification | Date and Time | Grab | Comp | Sample Container (Size/Mat'l) | Sample Type (Liquid, Sludge, Etc.) | Preservative | ANALYSIS REQUESTED | LABORATORY REMARKS |
|---|---|---|---|---|---|---|---|---|
| MW-6 | 10/5/95 1000 | | | 3 VOAs 1-1L | $H_2O$ | HCl | TPHg/BTEX and TPHd | |
| MW-7 | 1110 | | | | | | | |
| MW-8 | 1210 | | | | | | | |
| MW-9 | 1500 | | | | | | | |
| MW-10 | 1615 | | | | | | | |
| MW-3 | 1730 | | | | V | | | |
| BC-2 | 1825 | X | | | Very turbid $H_2O$ | | | The 1L bottle is not full. |
| BC-3 | 1815 | X | | | very turbid $H_2O$ | | | The 1L bottle is not full. |
| MW-11 | 10/6/95 1445 | | | | $H_2O$ | | | |
| MW-4 | 1530 | | | | | | | |

| Samplers: (Signature) | Relinquished by: (Signature) | Date: Time: | Received by: (Signature) | Date: Time: | Intact |
|---|---|---|---|---|---|
| Alan Peel | | | | | |
| Affiliation | Relinquished by. (Signature) | Date: Time: | Received by: (Signature) | Date. Time | Intact |
| Parsons ET | Relinquished by: (Signature) | Date: Time: | Received by: (Signature) | Date. Time | Intact 3.C |
| | | | Received for laboratory: (Signature) Nita Brown | Date 10-7-95 Time: 10:00 | Laboratory No |
| SAMPLER REMARKS: | | | Date Results to. | | |
| Seal # | | | | | |

# SPL Houston Environmental Laboratory

## Sample Login Checklist

| Date: 10-7-95 | Time: 10:00 |
|---|---|

| SPL Sample ID: 9510295 |
|---|

| | | | Yes | No |
|---|---|---|---|---|
| 1 | Chain-of-Custody (COC) form is present. | | ✓ | |
| 2 | COC is properly completed. | | ✓ | |
| 3 | If no, Non-Conformance Worksheet has been completed. | | | |
| 4 | Custody seals are present on the shipping container. | | ✓ | |
| 5 | If yes, custody seals are intact. | | ✓ | |
| 6 | All samples are tagged or labeled. | | ✓ | |
| 7 | If no, Non-Conformance Worksheet has been completed. | | | |
| 8 | Sample containers arrived intact | | ✓ | |
| 9 | Temperature of samples upon arrival: | | 3.6 C | |
| 10 | Method of sample delivery to SPL: | SPL Delivery | | |
| | | Client Delivery | | |
| | | FedEx Delivery (airbill #) | 6 642910890 | |
| | | Other: | | |
| 11 | Method of sample disposal: | SPL Disposal | | |
| | | HOLD | | |
| | | Return to Client | | |

| Name: Eleita Brown | Date: 10/7/95 |
|---|---|

# ATTACHMENT B

# PRIOR MONITORING WELL DATA

Facility Number: 8934
Facility Name: OAKLAND
State: CA
Facility Type: TERMINAL

| Well Id | Date | Depth to liquid(ft) | Depth to water (ft) | Product Thickness(ft) |
|---|---|---|---|---|
| BC-001 | 7/07/92 | 19.55 | 20.66 | 1.11 |
| BC-001 | 11/06/92 | 18.24 | 20.69 | 2.45 |
| BC-001 | 1/07/93 | 19.60 | 21.76 | 2.16 |
| BC-001 | 4/06/93 | 18.26 | 18.26 | 0.00 |
| BC-001 | 7/03/93 | 19.05 | 19.15 | .10 |
| BC-001 | 10/07/93 | 19.25 | 19.43 | .18 |
| BC-001 | 1/05/94 | 19.25 | 19.42 | .17 |
| BC-001 | 4/07/94 | 18.10 | 18.20 | .10 |
| BC-001 | 7/13/94 | 18.70 | 18.70 | 0.00 |
| BC-001 | 10/06/94 | 18.58 | 18.58 | 0.00 |
| BC-001 | 1/13/95 | 18.58 | 18.58 | 0.00 |
| BC-001 | 4/11/95 | 16.55 | 16.55 | 0.00 |
| BC-001 | 7/06/95 | 17.64 | 17.64 | 0.00 |
| BC-001 | 10/05/95 | 18.23 | 18.23 | 0.00 |
| BC-002 | 7/07/92 | 16.89 | 16.89 | 0.00 |
| BC-002 | 11/06/92 | 15.98 | 15.98 | 0.00 |
| BC-002 | 1/07/93 | 13.50 | 13.50 | 0.00 |
| BC-002 | 4/06/93 | 15.20 | 15.20 | 0.00 |
| BC-002 | 7/03/93 | 17.75 | 17.75 | 0.00 |
| BC-002 | 10/07/93 | 19.02 | 19.02 | 0.00 |
| BC-002 | 1/05/94 | 16.76 | 16.76 | 0.00 |
| BC-002 | 7/13/94 | 17.10 | 17.10 | 0.00 |
| BC-002 | 1/13/95 | 12.80 | 12.80 | 0.00 |
| BC-002 | 4/11/95 | 15.56 | 15.56 | 0.00 |
| BC-002 | 7/06/95 | 16.88 | 16.88 | 0.00 |
| BC-002 | 10/05/95 | 18.24 | 18.24 | 0.00 |
| BC-003 | 7/07/92 | 16.68 | 16.68 | 0.00 |
| BC-003 | 11/06/92 | 16.81 | 16.81 | 0.00 |
| BC-003 | 1/07/93 | 16.55 | 16.55 | 0.00 |
| BC-003 | 4/06/93 | 15.44 | 15.44 | 0.00 |
| BC-003 | 7/03/93 | 16.81 | 16.81 | 0.00 |
| BC-003 | 10/07/93 | 18.58 | 18.58 | 0.00 |
| BC-003 | 1/05/94 | 17.51 | 17.51 | 0.00 |
| BC-003 | 4/07/94 | 17.70 | 17.70 | 0.00 |
| BC-003 | 7/13/94 | 18.10 | 18.10 | 0.00 |
| BC-003 | 10/06/94 | 18.58 | 18.58 | 0.00 |
| BC-003 | 1/13/95 | 15.40 | 15.40 | 0.00 |
| BC-003 | 4/11/95 | 15.08 | 15.08 | 0.00 |
| BC-003 | 7/06/95 | 16.87 | 16.87 | 0.00 |
| BC-003 | 10/05/95 | 17.95 | 17.95 | 0.00 |
| ES-001 | 7/07/92 | 18.60 | 18.60 | 0.00 |
| ES-001 | 11/06/92 | 18.52 | 18.53 | .01 |
| ES-001 | 1/07/93 | 20.25 | 20.26 | .01 |
| ES-001 | 4/06/93 | 17.08 | 17.88 | .80 |
| ES-001 | 7/03/93 | 18.68 | 18.68 | 0.00 |
| ES-001 | 10/07/93 | 19.02 | 19.03 | .01 |

| | | | | |
|---|---|---|---|---|
| ES-001 | 1/05/94 | 18.96 | 18.96 | 0.00 |
| ES-001 | 4/07/94 | 18.50 | 18.68 | .18 |
| ES-001 | 7/13/94 | 18.08 | 18.08 | 0.00 |
| ES-001 | 10/06/94 | 18.39 | 18.43 | .04 |
| ES-001 | 1/13/95 | 18.39 | 18.43 | .04 |
| ES-001 | 4/11/95 | 16.25 | 16.25 | 0.00 |
| ES-001 | 7/06/95 | 17.28 | 17.28 | 0.00 |
| ES-001 | 10/05/95 | 18.01 | 18.01 | 0.00 |
| | | | | |
| ES-002 | 7/07/92 | 19.62 | 19.62 | 0.00 |
| ES-002 | 11/06/92 | 18.84 | 19.44 | .60 |
| ES-002 | 1/07/93 | 20.05 | 20.40 | .35 |
| ES-002 | 4/06/93 | 18.20 | 18.31 | .11 |
| ES-002 | 7/03/93 | 19.31 | 19.32 | .01 |
| ES-002 | 10/07/93 | 19.57 | 19.60 | .03 |
| ES-002 | 1/05/94 | 19.57 | 19.61 | .04 |
| ES-002 | 4/07/94 | 19.10 | 19.19 | .09 |
| ES-002 | 7/13/94 | 18.78 | 18.78 | 0.00 |
| ES-002 | 10/06/94 | 18.86 | 18.86 | 0.00 |
| ES-002 | 1/13/95 | 18.86 | 18.86 | 0.00 |
| ES-002 | 4/11/95 | 16.71 | 16.71 | 0.00 |
| ES-002 | 7/06/95 | 17.78 | 17.79 | .01 |
| ES-002 | 10/05/95 | 18.45 | 18.48 | .03 |
| | | | | |
| ES-003 | 7/07/92 | 19.52 | 19.52 | 0.00 |
| ES-003 | 11/06/92 | 18.84 | 19.84 | 1.00 |
| ES-003 | 1/07/93 | 19.20 | 19.20 | 0.00 |
| ES-003 | 4/06/93 | 15.92 | 15.92 | 0.00 |
| ES-003 | 7/03/93 | 18.12 | 18.12 | 0.00 |
| ES-003 | 10/07/93 | 19.62 | 19.62 | 0.00 |
| ES-003 | 1/05/94 | 19.52 | 19.52 | 0.00 |
| ES-003 | 4/07/94 | 19.00 | 19.00 | 0.00 |
| ES-003 | 7/13/94 | 18.71 | 18.71 | 0.00 |
| ES-003 | 10/06/94 | 19.24 | 19.24 | 0.00 |
| ES-003 | 1/13/95 | 17.35 | 17.35 | 0.00 |
| ES-003 | 4/11/95 | 16.95 | 16.95 | 0.00 |
| ES-003 | 7/06/95 | 18.07 | 18.07 | 0.00 |
| ES-003 | 10/05/95 | 18.76 | 18.76 | 0.00 |
| | | | | |
| ES-004 | 7/07/92 | 18.51 | 18.51 | 0.00 |
| ES-004 | 11/06/92 | 18.94 | 18.94 | 0.00 |
| ES-004 | 1/07/93 | 18.76 | 18.76 | 0.00 |
| ES-004 | 4/06/93 | 17.26 | 17.26 | 0.00 |
| ES-004 | 7/03/93 | 18.08 | 18.08 | 0.00 |
| ES-004 | 10/07/93 | 18.62 | 18.62 | 0.00 |
| ES-004 | 1/05/94 | 18.55 | 18.55 | 0.00 |
| ES-004 | 4/07/94 | 18.80 | 18.80 | 0.00 |

| | | | | |
|---|---|---|---|---|
| ES-009 | 10/07/93 | 17.90 | 17.90 | 0.00 |
| ES-009 | 1/05/94 | 17.80 | 17.80 | 0.00 |
| ES-009 | 4/07/94 | 17.24 | 17.24 | 0.00 |
| ES-009 | 7/13/94 | 17.40 | 17.40 | 0.00 |
| ES-009 | 10/06/94 | 17.46 | 17.46 | 0.00 |
| ES-009 | 1/13/95 | 15.80 | 15.80 | 0.00 |
| ES-009 | 4/11/95 | 15.23 | 15.23 | 0.00 |
| ES-009 | 7/06/95 | 16.34 | 16.34 | 0.00 |
| ES-009 | 10/05/95 | 17.09 | 17.09 | 0.00 |
| | | | | |
| ES-010 | 10/07/93 | 17.40 | 17.40 | 0.00 |
| ES-010 | 1/05/94 | 17.27 | 17.27 | 0.00 |
| ES-010 | 4/07/94 | 16.74 | 16.74 | 0.00 |
| ES-010 | 7/13/94 | 16.10 | 16.10 | 0.00 |
| ES-010 | 10/06/94 | 16.96 | 16.96 | 0.00 |
| ES-010 | 1/13/95 | 15.42 | 15.42 | 0.00 |
| ES-010 | 4/11/95 | 14.82 | 14.82 | 0.00 |
| ES-010 | 7/06/95 | 15.89 | 15.89 | 0.00 |
| ES-010 | 10/05/95 | 16.59 | 16.59 | 0.00 |
| | | | | |
| ES-011 | 10/07/93 | 18.90 | 18.90 | 0.00 |
| ES-011 | 1/05/94 | 18.86 | 18.86 | 0.00 |
| ES-011 | 4/07/94 | 18.38 | 18.38 | 0.00 |
| ES-011 | 7/13/94 | 18.60 | 18.60 | 0.00 |
| ES-011 | 10/06/94 | 18.55 | 18.55 | 0.00 |
| ES-011 | 1/13/95 | 17.16 | 17.16 | 0.00 |
| ES-011 | 4/11/95 | 16.54 | 16.54 | 0.00 |
| ES-011 | 7/06/95 | 17.54 | 17.54 | 0.00 |
| ES-011 | 10/05/95 | 18.20 | 18.20 | 0.00 |

Facility Number: 8934
Facility Name: OAKLAND
State: CA
Facility Type: TERMINAL

| Well Id | Date | Depth to liquid(ft) | Depth to water (ft) | Product Thickness(ft) |
|---|---|---|---|---|
| ES-004 | 7/13/94 | 18.13 | 18.13 | 0.00 |
| ES-004 | 10/06/94 | 18.25 | 18.25 | 0.00 |
| ES-004 | 1/13/95 | 16.77 | 16.77 | 0.00 |
| ES-004 | 4/11/95 | 16.14 | 16.14 | 0.00 |
| ES-004 | 7/06/95 | 17.19 | 17.19 | 0.00 |
| ES-004 | 10/05/95 | 17.84 | 17.84 | 0.00 |
| ES-005 | 7/07/92 | 20.23 | 20.23 | 0.00 |
| ES-005 | 11/06/92 | 17.60 | 20.92 | 3.32 |
| ES-005 | 1/07/93 | 19.35 | 22.00 | 2.65 |
| ES-005 | 4/06/93 | 17.28 | 17.28 | 0.00 |
| ES-005 | 7/03/93 | 19.50 | 19.50 | 0.00 |
| ES-005 | 10/07/93 | 18.65 | 19.33 | .68 |
| ES-005 | 4/07/94 | 18.37 | 18.38 | .01 |
| ES-005 | 7/13/94 | 18.30 | 18.30 | 0.00 |
| ES-005 | 10/06/94 | 18.23 | 18.23 | 0.00 |
| ES-005 | 1/13/95 | 18.23 | 18.23 | 0.00 |
| ES-005 | 4/11/95 | 16.00 | 16.00 | 0.00 |
| ES-005 | 7/06/95 | 17.09 | 17.09 | 0.00 |
| ES-005 | 10/05/95 | 18.74 | 18.74 | 0.00 |
| ES-006 | 10/07/93 | 21.81 | 21.81 | 0.00 |
| ES-006 | 4/07/94 | 21.30 | 21.30 | 0.00 |
| ES-006 | 7/13/94 | 21.40 | 21.40 | 0.00 |
| ES-006 | 10/06/94 | 21.58 | 21.58 | 0.00 |
| ES-006 | 1/13/95 | 20.25 | 20.25 | 0.00 |
| ES-006 | 4/11/95 | 19.56 | 19.56 | 0.00 |
| ES-006 | 7/06/95 | 20.55 | 20.55 | 0.00 |
| ES-006 | 10/05/95 | 21.14 | 21.14 | 0.00 |
| ES-007 | 10/07/93 | 19.99 | 19.99 | 0.00 |
| ES-007 | 4/07/94 | 19.44 | 19.44 | 0.00 |
| ES-007 | 7/13/94 | 19.11 | 19.11 | 0.00 |
| ES-007 | 10/06/94 | 19.73 | 19.73 | 0.00 |
| ES-007 | 1/13/95 | 18.11 | 18.11 | 0.00 |
| ES-007 | 4/11/95 | 17.35 | 17.35 | 0.00 |
| ES-007 | 7/06/95 | 18.46 | 18.46 | 0.00 |
| ES-007 | 10/05/95 | 19.15 | 19.15 | 0.00 |
| ES-008 | 10/07/93 | 19.13 | 19.13 | 0.00 |
| ES-008 | 1/05/94 | 19.10 | 19.10 | 0.00 |
| ES-008 | 4/07/94 | 18.44 | 18.44 | 0.00 |
| ES-008 | 7/13/94 | 18.50 | 18.50 | 0.00 |
| ES-008 | 10/06/94 | 18.76 | 18.76 | 0.00 |
| ES-008 | 1/13/95 | 16.83 | 16.83 | 0.00 |
| ES-008 | 4/11/95 | 16.41 | 16.41 | 0.00 |
| ES-008 | 7/06/95 | 17.56 | 17.56 | 0.00 |
| ES-008 | 10/05/95 | 18.27 | 18.27 | 0.00 |

# ATTACHMENT C

# PREVIOUS ANALYTICAL DATA SUMMARY

Facility Number: 8934
Facility Name: OAKLAND
State: CA
Facility Type: TERMINAL

| Location | Date | Benzene (ug/l) | Toulene (ug/l) | Ethyl-benzene(ug/l) | Total Xylenes(ug/l) | Total Btex(ug/l) | TPH diesel(mg/l) | TPH gasoline(mg/l) |
|---|---|---|---|---|---|---|---|---|
| ES-03 | 10/06/92 | 93 | 18 | ND | 11 | 122 | ND | NA |
| ES-03 | 1/07/93 | 52 | 49 | 100 | 250 | 451 | ND | NA |
| ES-03 | 4/06/93 | 53 | ND | 67 | 78 | 198 | 0.51 | 4.5 |
| ES-03 | 10/07/93 | 2.0 | 1.0 | ND | 2.0 | 5.0 | ND | NA |
| ES-03 | 1/05/94 | 13 | 2.0 | 7.0 | 5.0 | 27 | NA | 0.53 |
| ES-03 | 4/07/94 | 10 | 9 | 26 | 34 | 79 | 0.91 | 0.85 |
| ES-03 | 7/13/94 | 2.0 | 0.9 | 0.8 | 3.0 | 6.7 | 0.28 | 0.37 |
| ES-03 | 10/06/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-03 | 1/13/95 | 19 | 15 | 72 | 88 | 194 | 1.1 | 1.6 |
| ES-03 | 4/11/95 | 20 | 7 | 36 | 22 | 85 | 0.39 | 0.94 |
| ES-03 | 7/06/95 | 6 | ND | 7 | ND | 13 | 1.2 | 0.24 |
| ES-03 | 10/05/95 | 2 | 2 | ND | ND | 4 | 0.11 | ND |
| ES-04 | 7/08/92 | 31 | 5.6 | ND | 2.8 | 39.4 | ND | NA |
| ES-04 | 10/06/92 | 100 | 8.2 | ND | 7.6 | 115.8 | ND | NA |
| ES-04 | 1/07/93 | 30 | 6.7 | 7.7 | 16 | 60.4 | ND | NA |
| ES-04 | 4/06/93 | 33 | 2.3 | 1.9 | 4.7 | 41.9 | ND | 0.36 |
| ES-04 | 10/07/93 | 8.0 | ND | ND | 2.0 | 10.0 | ND | NA |
| ES-04 | 1/05/94 | 15 | 0.6 | 0.4 | 3.0 | 19 | ND | 0.13 |
| ES-04 | 4/07/94 | 11 | ND | ND | ND | 11 | ND | 0.17 |
| ES-04 | 7/13/94 | 9.0 | ND | ND | 0.7 | 9.7 | ND | 0.13 |
| ES-04 | 10/06/94 | 18.0 | ND | 2.0 | 3.0 | 23.0 | ND | 0.10 |
| ES-04 | 1/13/95 | 12 | ND | ND | 2 | 14 | ND | 0.15 |
| ES-04 | 4/11/95 | 39 | 4 | 12 | 24 | 79 | ND | 0.18 |
| ES-04 | 7/06/95 | 100 | 10 | 26 | 61 | 197 | 0.16 | 0.60 |
| ES-04 | 10/05/95 | 210 | 16 | 71 | 84 | 381 | 0.17 | 1.2 |
| ES-06 | 10/07/93 | 1.0 | ND | ND | ND | ND | ND | NA |
| ES-06 | 1/05/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-06 | 4/07/94 | ND | ND | ND | ND | ND | ND | 0.16 |

Facility Number: 8934
Facility Name: OAKLAND
State: CA
Facility Type: TERMINAL

| Location | Date | Benzene (ug/l) | Toulene (ug/l) | Ethyl-benzene(ug/l) | Total Xylenes(ug/l) | Total Btex(ug/l) | TPH diesel(mg/l) | TPH gasoline(mg/l) |
|---|---|---|---|---|---|---|---|---|
| ES-06 | 7/13/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-06 | 10/06/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-06 | 1/13/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-06 | 4/11/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-06 | 7/06/95 | ND | ND | ND | 2 | 2 | ND | ND |
| ES-06 | 10/05/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-07 | 10/07/93 | ND | ND | ND | ND | ND | ND | NA |
| ES-07 | 1/05/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-07 | 4/07/94 | ND | ND | ND | ND | ND | 0.10 | 0.11 |
| ES-07 | 7/13/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-07 | 10/06/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-07 | 1/13/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-07 | 4/11/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-07 | 7/06/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-07 | 10/05/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-08 | 10/07/93 | ND | ND | ND | ND | ND | ND | NA |
| ES-08 | 1/05/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-08 | 4/07/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-08 | 7/13/94 | ND | ND | ND | ND | ND | NA | ND |
| ES-08 | 10/06/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-08 | 1/13/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-08 | 4/11/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-08 | 7/06/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-08 | 10/05/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-09 | 10/07/93 | ND | ND | ND | ND | ND | ND | NA |
| ES-09 | 1/05/94 | ND | ND | ND | ND | ND | ND | ND |

Facility Number: 8934
Facility Name: OAKLAND
State: CA
Facility Type: TERMINAL

| Location | Date | Benzene (ug/l) | Toulene (ug/l) | Ethyl-benzene(ug/l) | Total Xylenes(ug/l) | Total Btex(ug/l) | TPH diesel(mg/l) | TPH gasoline(mg/l) |
|---|---|---|---|---|---|---|---|---|
| ES-09 | 4/07/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-09 | 7/13/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-09 | 10/06/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-09 | 1/13/95 | ND | ND | ND | ND | ND | 1.1 | ND |
| ES-09 | 4/11/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-09 | 7/06/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-09 | 10/05/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 10/07/93 | ND | ND | ND | ND | ND | ND | NA |
| ES-10 | 1/05/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 4/07/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 7/13/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 10/06/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 1/13/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 4/11/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 7/06/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-10 | 10/05/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-11 | 10/07/93 | ND | ND | ND | ND | ND | ND | NA |
| ES-11 | 1/05/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-11 | 4/07/94 | ND | ND | ND | ND | ND | 0.35 | ND |
| ES-11 | 7/13/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-11 | 10/06/94 | ND | ND | ND | ND | ND | ND | ND |
| ES-11 | 1/13/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-11 | 4/11/95 | ND | ND | ND | ND | ND | ND | 0.17 |
| ES-11 | 7/06/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-11 | 10/05/95 | ND | ND | ND | ND | ND | ND | ND |

Facility Number: 8934
Facility Name: OAKLAND
State: CA
Facility Type: TERMINAL

| Location | Date | Benzene (ug/l) | Toulene (ug/l) | Ethyl-benzene (ug/l) | Total Xylenes (ug/l) | Total Btex (ug/l) | TPH diesel (mg/l) | TPH gasoline (mg/l) |
|---|---|---|---|---|---|---|---|---|
| BC-02 | 7/08/92 | ND | ND | ND | 8.4 | 8.4 | 2.1 | NA |
| BC-02 | 10/06/92 | ND | 1.1 | 0.9 | 7.2 | 9.2 | ND | NA |
| BC-02 | 1/07/93 | ND | 1.1 | 1.5 | 9.5 | 12.1 | ND | NA |
| BC-02 | 4/06/93 | ND | ND | ND | ND | ND | 0.13 | ND |
| BC-02 | 10/07/93 | ND | ND | ND | ND | ND | 1.4 | NA |
| BC-02 | 1/05/94 | NA | NA | NA | NA | NA | NA | NA |
| BC-02 | 4/07/94 | NA | NA | NA | NA | NA | NA | NA |
| BC-02 | 7/13/94 | NA | NA | NA | NA | NA | NA | NA |
| BC-02 | 10/06/94 | NA | NA | NA | NA | NA | NA | NA |
| BC-02 | 1/13/95 | ND | ND | ND | ND | ND | 1.1 | ND |
| BC-02 | 4/11/95 | ND | ND | ND | ND | ND | ND | ND |
| BC-02 | 7/06/95 | ND | ND | ND | ND | ND | 0.29 | ND |
| BC-02 | 10/05/95 | 1 | ND | ND | 1 | 2 | 1.5 | ND |
| BC-03 | 7/08/92 | ND | 2.5 | ND | 6.1 | 8.6 | 3.9 | NA |
| BC-03 | 10/06/92 | ND | 1.9 | 0.5 | 1.8 | 4.2 | 0.8 | NA |
| BC-03 | 1/07/93 | ND | ND | ND | ND | ND | ND | NA |
| BC-03 | 4/06/93 | ND | ND | ND | ND | ND | 0.12 | ND |
| BC-03 | 10/07/93 | ND | ND | 1.0 | 2.0 | 3.0 | 1.4 | NA |
| BC-03 | 1/05/94 | ND | ND | ND | 1.6 | 1.6 | 1.8 | ND |
| BC-03 | 4/07/94 | ND | ND | ND | ND | ND | 0.85 | ND |
| BC-03 | 7/13/94 | ND | ND | ND | ND | ND | 0.20 | ND |
| BC-03 | 10/06/94 | ND | ND | ND | ND | ND | 0.82 | ND |
| BC-03 | 1/13/95 | ND | ND | ND | ND | ND | 0.89 | ND |
| BC-03 | 4/11/95 | ND | ND | ND | ND | ND | ND | ND |
| BC-03 | 7/06/95 | ND | ND | ND | ND | ND | 0.38 | ND |
| BC-03 | 10/05/95 | ND | ND | ND | ND | ND | ND | ND |
| ES-03 | 7/08/92 | 54 | 21 | 48 | 34 | 157 | 1.3 | NA |