**PES Environmental, Inc.**
**Engineering & Environmental Services**

July 16, 2001

**167.002.01.006**

Greater Bay Trust Company
Hanson, Bridgett, Marcus, Vlahos & Rudy
333 Market Street, Suite 2300
San Francisco, California 94105-2173

JUL 19 2001

Attention: Leah S. Goldberg, Esq.

**QUARTERLY GROUNDWATER MONITORING**
**APRIL 2001 QUARTERLY EVENT**
**FORMER COX CADILLAC FACILITY**
**230 BAY PLACE**
**OAKLAND, CALIFORNIA**

Dear Ms. Goldberg:

This report presents the results of groundwater monitoring conducted by PES Environmental, Inc. (PES) on April 6, 2001 at the former Bill Cox Cadillac facility at 230 Bay Place, Oakland, California. The work is being performed as part of response action to address releases from a former 10,000-gallon gasoline underground storage tank (UST) operated at the site by Bill Cox Cadillac. The location of the site is shown on Plate 1. The work was performed on behalf of Greater Bay Trust Company, trustee for the Robert Shepard Trust, Brian F. Shepard Trust, Douglas C. Shepard Trust, and the Lisa C. Shepard Trust, the former owners of the property. The current owner of the site is Avalon Bay Communities.

In a letter to The Greater Bay Trust Company dated April 6, 2001, ACEHS requested that groundwater monitoring at the site be continued. The objective of the groundwater monitoring program at this site is to evaluate the presence of petroleum hydrocarbons in groundwater. The monitoring is performed in accordance with California Regional Water Quality Control Board (RWQCB) guidelines.

## BACKGROUND INFORMATION

One groundwater monitoring well (Well MW-1) and seven temporary monitoring wells (Wells TW-1 through TW-7) were installed at the site by PES to investigate subsurface conditions following removal of a 3,000-gallon waste oil storage tank in December 1988. MW-1 was installed in February 1993 down gradient of the former waste oil tank and a

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c/o Hanson, Bridget, Marcus, Vlahos & Rudy
333 Market Street, Suite 2300
San Francisco, CA 94105

JUL 24 2001

Attention: Leah Goldberg, Esq.

**TRANSMITTAL**
**REVISED SIGNATURE PAGE FOR**
**QUARTERLY GROUNDWATER MONITORING REPORT**
**APRIL 2001 QUARTERLY EVENT**
**FORMER COX CADILLAC FACILITY**
**230 BAY PLACE**
**OAKLAND, CALIFORNIA**

Dear Ms. Goldberg:

Enclosed please the revised signature page to the above referenced report. The signature page includes Andrew Briefer's Professional Engineer's stamp. This revision is to replace the original unstamped signature page transmitted to you on July 16, 2001

Please call should you any questions.

Sincerely,

**PES ENVIRONMENTAL, INC.**

François A. Bush
Senior Geologist

Enclosure

cc: Ms. Cheryl Howell - Greater Bay Trust Company
Mr. Don Huang - Alameda County Environmental Health Services
Mr. Mark Owens - California UST Cleanup Fund

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In accordance with the April 6, 2001 ACEHS letter, PES will continue with quarterly groundwater monitoring. If you have any questions or comments, please do not hesitate to call either of the undersigned.

Yours very truly,

**PES ENVIRONMENTAL, INC.**

François A. Bush
Senior Geologist

Andrew A. Briefer, P. E.
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ANDREW A. BRIEFER
No. 046518
EXP. 6-30-03
CIVIL
STATE OF CALIFORNIA

Attachments:

| | | |
|---|---|---|
| | Table 1 | Groundwater Elevation Data Through April 6, 2001 |
| | Table 2 | Groundwater Sample Analytical Results Through April 6, 2001 |
| | Table 3 | Summary of Total Dissolved Oxygen Measurements |
| | Plate 1 | Site Location Map |
| | Plate 2 | Site Plan and Well Location Map |
| | Plate 3 | Groundwater Elevation Contours on April 6, 2001 |
| | Plate 4 | Distribution of Dissolved Hydrocarbons in Groundwater – April 6, 2001 |
| | Appendix A | Well Sampling Documentation |
| | Appendix B | Laboratory Analytical Reports and Chain of Custody Documentation |

cc: Ms. Cheryl Howell – Greater Bay Trust Company
Mr. Don Huang – Alameda County Environmental Health Services
Mr. Mark Owens – California UST Cleanup Fund

groundwater sample was collected from it in March 1993. Elevated concentrations of total petroleum hydrocarbons quantified as gasoline (TPHg) were detected in the sample analyzed from Well MW-1. Gasoline detected in groundwater was characterized as "fresh" and no waste oil constituents were detected. Temporary wells, Wells TW-1 through TW-7 were subsequently installed in March 1993 to investigate the degree and extent, and the likely source of the gasoline contamination in groundwater. Results of the additional investigation indicated that elevated TPHg and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater samples from four of the temporary wells and in Well MW-1. MTBE was not detected in the samples. The highest concentrations of petroleum hydrocarbon constituents were detected in groundwater samples from two wells (TW-5 and TW-7) closest to a 10,000-gallon gasoline tank and associated product piping located to the west of the former waste oil tank. The results of the investigations were presented in PES' report, *Soil and Groundwater Investigation, Bill Cox Cadillac, 230 Bay Place, Oakland, California* dated December 23, 1993. The well locations and former waste oil tank location are shown on Plate 2.

The 10,000-gallon underground gasoline tank and product piping were removed by DECON Environmental Services of Hayward, California and observed and documented by Eisenberg, Olivieri & Associates (EOA) of Oakland, California in January 1994. During removal, a hole was observed in the product piping between the tank and dispenser. Floating free-phase product was observed on the groundwater surface in the tank excavation. EOA, on behalf of Bill Cox, subsequently performed limited investigations to evaluate the offsite extent of gasoline contamination. EOA performed quarterly groundwater monitoring of wells MW-1, TW-2, TW-6 and TW-7 between December 1994 and February 1996.

Soil and groundwater remediation was subsequently requested by ACEHS in a letter to the Harold Shepard Trust dated October 24, 1996. In the letter, ACEHS specified that soil remediation consisting of excavation of hydrocarbon-affected soil, and groundwater remediation consisting of oxygen introduction was required. PES developed a Remedial Plan in response to that request. PES' Remedial Plan consisted of a *Revised Interim Remedial Action Plan* (IRAP) dated October 31, 1996 and an *Addendum, Revised Interim Remedial Action Plan* dated November 26, 1996. As part of the Remedial Plan, site characterization, additional well installation, soil remediation, baseline groundwater monitoring, and initial groundwater remediation were conducted by PES between June 1997 and April 1999. The results of work conducted between June 1997 and April 1999 were previously submitted to ACEHS in PES' report, *Site Characterization and Interim Remedial Actions, Former Cox Cadillac Facility, Oakland, California,* dated September 30, 1999.

A pilot program commenced in January 1999 to remediate groundwater by applying a combination of in-situ bioremediation methods to introduce oxygen and nutrients into groundwater at the site to enhance natural biodegradation rates of petroleum hydrocarbons. The methods included: (1) adding a nutrient- and hydrogen peroxide-enriched water

(hereinafter referred to as enriched water); and (2) placement of Oxygen Releasing Compound (ORC) in selected wells at the site. There were a total of eight applications of enriched water from March 1999 to November 1999. Application of hydrogen peroxide-enriched water and ORC in selected wells was not conducted in the April 2001 quarterly monitoring event.

The April 2001 monitoring is the fifth monitoring event since the groundwater remediation program and baseline monitoring was initiated by PES in January 1999. Groundwater monitoring reports presenting the results of quarterly monitoring conducted in April, July and October 1999 and January 2000 have previously been submitted to your attention. The results of the April 2001 groundwater monitoring are presented below.

## GROUNDWATER MONITORING ACTIVITIES

### Depth to Groundwater Measurements

Water levels were measured by Blaine Tech Services (Blaine Tech) of San Jose, California at monitoring wells MW-1, MW-2, TW-2, TW-4, TW-5, TW-6, and TW-7 on April 6, 2001. Depth-to-groundwater measurements were obtained using an electronic water-level indicator and recorded to the nearest 0.01-foot. The water-level indicator was cleaned with a solution of non-phosphate detergent and de-ionized water and then rinsed before each use. Groundwater elevation data are presented in Table 1 and groundwater elevation contours are presented on Plate 3. Dissolved oxygen concentrations were measured by Blaine Tech in the five wells to be sampled prior to measuring groundwater levels.

### Groundwater Sampling and Analyses

Groundwater samples were collected from wells MW-1, MW-2, TW-2, TW-6, and TW-7 by Blaine Tech on April 6, 2001. After dissolved oxygen and water-level measurements were obtained, the wells were purged by bailing until approximately three well volumes of water were removed. During purging, the water was monitored for pH, temperature, conductivity, and turbidity. Purge water was collected in DOT-approved 55-gallon steel drums and stored on site. Following well purging, a groundwater sample was collected from each well using a disposable bailer. The sample was transferred to the appropriate laboratory sample containers using a bottom draining bailer stopcock. The sample containers were filled slowly to minimize sample volatilization and ensure that the sample was free of air bubbles. The sample containers were labeled with project site, well identification number, sample number, sampling date and time, and requested analyses. Well sampling documentation is presented in Appendix A.

The groundwater samples were transported in a chilled, thermally insulated cooler under chain-of-custody protocol to Entech Analytical Labs, Inc. of Sunnyvale, California, a

California Department of Health Services-certified laboratory. The groundwater samples were analyzed for TPHg using EPA Test Method 8015 modified, BTEX and methyl tertiary butyl ether (MTBE) using EPA Test Method 8020. Groundwater sample analytical results are presented in Table 2 and shown on Plate 4. Copies of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

### Dissolved Oxygen Measurements

Total dissolved oxygen was measured on April 6, 2001 in wells MW-1, MW-2, TW-2, TW-6, and TW-7, at the start of the day before measuring groundwater levels and purging and sampling. The measurements were collected from each well within the middle portion of the water column using a YSI, Inc., Model 51B Dissolved Oxygen (DO) Meter. The equipment was calibrated according to the manufacturer's specifications before use. Prior to each measurement, the portion of the equipment submerged in the well was cleaned with a solution of non-phosphate detergent and de-ionized water then rinsed with de-ionized water. Total dissolved oxygen measurements through April 6, 2001 are summarized in Table 3 and are included with the well sampling documentation presented in Appendix A.

## GROUNDWATER MONITORING RESULTS

### Groundwater Elevation Measurements

Depth-to-groundwater data collected from wells MW-1, MW-2, TW-2, TW-6 and TW-7 on April 6, 2001 were converted to groundwater elevations referenced to site datum. Groundwater elevations ranged from 91.83 feet in well MW-2 to 96.97 feet in well TW-2. Groundwater flow direction at the site is to the southwest, at a hydraulic gradient of approximately 0.04-foot per foot. No floating free product or hydrocarbon sheen was observed in the wells. Groundwater elevation data are presented in Table 1 and elevation contours are presented on Plate 3.

### Groundwater Sample Analytical Results

The analytical results of the groundwater samples collected on April 6, 2001 are presented in Table 2 and shown on Plate 4. TPHg was detected in the samples from wells MW-1, MW-2, and TW-7 at concentrations of 32,000 µg/L, 2,800 µg/L, and 22,000 µg/L, respectively. MTBE was detected in the samples from wells MW-1, MW-2 and TW-7 at concentrations of 470 µg/L, 3,800 µg/L and 990 µg/L, respectively. Benzene was detected in the samples from wells MW-1, MW-2, TW-7 at concentrations of 4,300 µg/L, 210 µg/L, and 4,800 µg/L, respectively. The highest concentrations of toluene, ethylbenzene and total xylenes were detected in the sample from well MW-1 at 3,200 µg/L, 2,600 µg/L, and 7,300 µg/L,

respectively. Copies of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

## SUMMARY

Results of the April 6, 2001 groundwater elevations indicate a hydraulic gradient of approximately 0.04-foot per foot. As with historical observations, the groundwater flow direction continues to be toward the southwest.

Concentrations of TPHg and BTEX detected in the wells in April 2001 are similar to those detected in January 2000. However, significant decreases in TPHg and MTBE concentrations in wells MW-2 and TW-7 and significant increases in TPHg, MTBE and BTEX concentrations in well MW-1 were observed in samples from April 2001 compared to January 2000. The increase in concentrations of contaminants in well MW-1 may be a concentration rebound after discontinuing enhanced bioremediation in this well. The enhanced bioremediation program appeared to previously be effective in reducing hydrocarbon concentrations in groundwater from this well. No concentration rebound was noted in groundwater samples from well TW-6, the other well where enhanced biodegradation appeared to be effective during the 1999-2000 pilot study. The lack of rebound likely indicates that biodegradation of contaminants in groundwater in the immediate vicinity of well TW-6 is complete. Consistent with historical findings, the highest concentrations of petroleum hydrocarbons were detected in the groundwater from wells nearest to the former gasoline UST and product piping, specifically Wells MW-1 and TW-7.

MTBE concentrations in wells MW-2 and TW-7, located downgradient and nearest to several utility trenches, have been significantly higher than in onsite wells. MTBE concentrations have been the highest in MW-2 since the start of monitoring for MTBE in January 1999. The high concentrations of MTBE detected in samples from well MW-2 are likely the result of elevated concentrations from offsite sources that are being conveyed toward the site via preferential flow as a result of utility trenches adjacent to the well. In 1993 PES performed sampling of groundwater from Wells MW-1, TW-4, TW-5, TW-6, and TW-7 for analyses by EPA Test Method 8260. No MTBE was detected in the samples at that time. Additionally, a utility location assessment was conducted by EOA in late 1995/early 1996. EOA identified numerous utility trenches and vaults along the western property boundary and within Vernon Street, Bay Place, and Harrison Street surrounding the site. EOA interviews with utility providers indicated most utility trenches are backfilled with permeable materials including gravel and sand. The depth of many of these utility trenches is sufficient to intercept shallow groundwater flow in the site vicinity. The results of the EOA utility assessment were presented in a document titled *Corrective Action Plan Development Report, Phase I, Cox Cadillac, 230 Bay Place, Oakland, California*, dated April 1, 1996.

In accordance with the April 6, 2001 ACEHS letter, PES will continue with quarterly groundwater monitoring. If you have any questions or comments, please do not hesitate to call either of the undersigned.

Yours very truly,

**PES ENVIRONMENTAL, INC.**

François Bush
Project Geologist

Andrew A. Briefer, P. E.
Principal Engineer

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cc: Ms. Cheryl Howell - Greater Bay Trust Company
Mr. Don Huang - Alameda County Environmental Health Services
Mr. Mark Owens - California UST Cleanup Fund

Table 1
Groundwater Elevation Data Through January 11, 2000
Interim Remedial Actions
Former Cox Cadillac, 230 Bay Place
Oakland, California

| Well Number | Date Measured | Top-of-Casing Reference Elevation (feet*) | Depth to Water (feet BTOC) | Groundwater Elevation (feet*) |
|---|---|---|---|---|
| MW-1 | 1/12/99 | 100.00 | 2.79 | 97.21 |
| | 4/13/99 | 100.00 | 2.00 | 98.00 |
| | 7/7/99 | 100.00 | 2.60 | 97.40 |
| | 10/6/99 | 100.00 | 2.94 | 97.06 |
| | 1/11/00 | 100.00 | 2.69 | 97.31 |
| | **4/6/01** | **100.00** | **2.99** | **97.01** |
| MW-2 | 1/12/99 | 97.48 | 5.62 | 91.86 |
| | 4/13/99 | 97.48 | 5.30 | 92.18 |
| | 7/7/99 | 97.48 | 5.80 | 91.68 |
| | 10/6/99 | 97.48 | 5.99 | 91.49 |
| | 1/11/00 | 97.48 | 5.73 | 91.75 |
| | **4/6/01** | **97.48** | **5.65** | **91.83** |
| TW-2 | 1/12/99 | 100.43 | 1.91 | 98.52 |
| | 4/13/99 | 100.43 | 2.51 | 97.92 |
| | 7/7/99 | 100.43 | 1.89 | 98.54 |
| | 10/6/99 | 100.43 | 1.97 | 98.46 |
| | 1/11/00 | 100.43 | 1.79 | 98.64 |
| | **4/6/01** | **100.43** | **3.46** | **96.97** |
| TW-4 | 1/12/99 | 99.35 | NM | NA |
| | 4/13/99 | 99.35 | 1.82 | 97.53 |
| | 7/7/99 | 99.35 | 2.36 | 96.99 |
| | 10/6/99 | 99.35 | NM | NA |
| | 1/11/00 | 99.35 | 2.63 | 96.72 |
| | **4/6/01** | **99.35** | **3.97** | **95.38** |
| TW-5 | 1/12/99 | 99.40 | NM | NA |
| | 4/13/99 | 99.40 | 1.96 | 97.44 |
| | 7/7/99 | 99.40 | 3.12 | 96.28 |
| | 10/6/99 | 99.40 | NM | NA |
| | 1/11/00 | 99.40 | 1.03 | 98.37 |
| | **4/6/01** | **99.40** | **3.04** | **96.36** |
| TW-6 | 1/12/99 | 98.75 | 5.52 | 93.23 |
| | 4/13/99 | 98.75 | 4.91 | 93.84 |
| | 7/7/99 | 98.75 | 6.04 | 92.71 |
| | 10/6/99 | 98.75 | 6.64 | 92.11 |
| | 1/11/00 | 98.75 | 6.41 | 92.34 |
| | **4/6/01** | **98.75** | **4.93** | **93.82** |
| TW-7 | 1/12/99 | 97.96 | 4.81 | 93.15 |
| | 4/13/99 | 97.96 | 4.73 | 93.23 |
| | 7/7/99 | 97.96 | 5.17 | 92.79 |
| | 10/6/99 | 97.96 | 5.70 | 92.26 |
| | 1/11/00 | 97.96 | 5.42 | 92.54 |
| | **4/6/01** | **97.96** | **4.63** | **93.33** |

**Notes:**

* = Referenced to site datum
BTOC = Below top of casing
NA = Data not available
NM = Depth to water not measured

Table 2
Groundwater Sample Analytical Results Through January 11, 2000
Interim Remedial Actions
Former Cox Cadillac, 230 Bay Place
Oakland, California

| Well Number | Sample Date | TPH as Gasoline (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|---|---|---|---|---|---|---|---|
| MW-1 | 1/12/99 | 39,000 | 800 | 2,600 | 970 | 2,900 | 5,700 |
| | 4/13/99 | 29,000 | 520 | 1,500 | 500 | <50 | 4,000 |
| | 7/7/99 | 31,000 | <250* | 1,900 | 870 | 1,600 | 3,900 |
| | 10/6/99 | 32,000 | <250* | 2,100 | 910 | 1,800 | 4,400 |
| | 1/11/00 | 2,400 | <5.0* | 52 | 3.9 | 63 | 12 |
| | **4/6/01** | **32,000** | **470** | **4,300** | **3,200** | **2,600** | **7,300** |
| MW-2 | 1/12/99 | <50 | 2,900 | 1.5 | <0.50 | <0.50 | <0.50 |
| | 4/13/99 | <50 | 3,800 | 0.76 | <0.50 | <0.50 | <0.50 |
| | 7/7/99 | <2,500 | 7000* | <25 | <25 | <25 | <25 |
| | 10/6/99 | 2,800 | 300* | 73 | <25 | <25 | <25 |
| | 1/11/00 | 11,000 | 8400* | 890 | <100 | <100 | <100 |
| | **4/6/01** | **2,800** | **3,800** | **210** | **<25** | **<25** | **<25** |
| TW-2 | 1/12/99 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 4/13/99 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 7/7/99 | <50 | <5.0* | <0.50 | <0.50 | <0.50 | <0.50 |
| | 10/6/99 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 1/11/00 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | **4/6/01** | **<50** | **<5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| TW-6 | 1/12/99 | 29,000 | 210 | 9,900 | 4,100 | 1,000 | 4,000 |
| | 4/13/99 | <50 | 22 | 0.70 | <0.50 | <0.50 | 0.62 |
| | 7/7/99 | 55 | 8.1* | 13 | <0.50 | <0.50 | 2.2 |
| | 10/6/99 | <50 | <5.0 | 0.59 | <0.50 | <0.50 | <0.50 |
| | 1/11/00 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | **4/6/01** | **<50** | **<5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| TW-7 | 1/12/99 | 29,000 | <100 | 7,300 | 670 | 2,700 | 960 |
| | 4/13/99 | 54,000 | 1,200 | 4,500 | 1,800 | 180 | 8,200 |
| | 7/7/99 | 42,000 | 2200* | 8,000 | 4,500 | 1,200 | 3,500 |
| | 10/6/99 | 29,000 | 580* | 9,700 | 1,600 | 1,600 | 2,100 |
| | 1/11/00 | 52,000 | 2600* | 8,500 | 7,100 | 1,600 | 6,700 |
| | **4/6/01** | **22,000** | **990** | **4,800** | **1,800** | **2,200** | **3,400** |

Notes:
TPH - Total Petroleum Hydrocarbons
MTBE - Methyl tert-butyl ether
µg/L = Micrograms per liter.
<0.50 = Not detected at or above indicated laboratory reporting limit.
Samples analyzed by EPA Method 8020 for BTEX and MTBE and by EPA Method 8015 for TPH/gas.
*MTBE confirmation by EPA Method 8260.

Table 3
Summary of Total Dissolved Oxygen Measurements
Interim Remedial Actions
Former Cox Cadillac, 230 Bay Place
Oakland, California

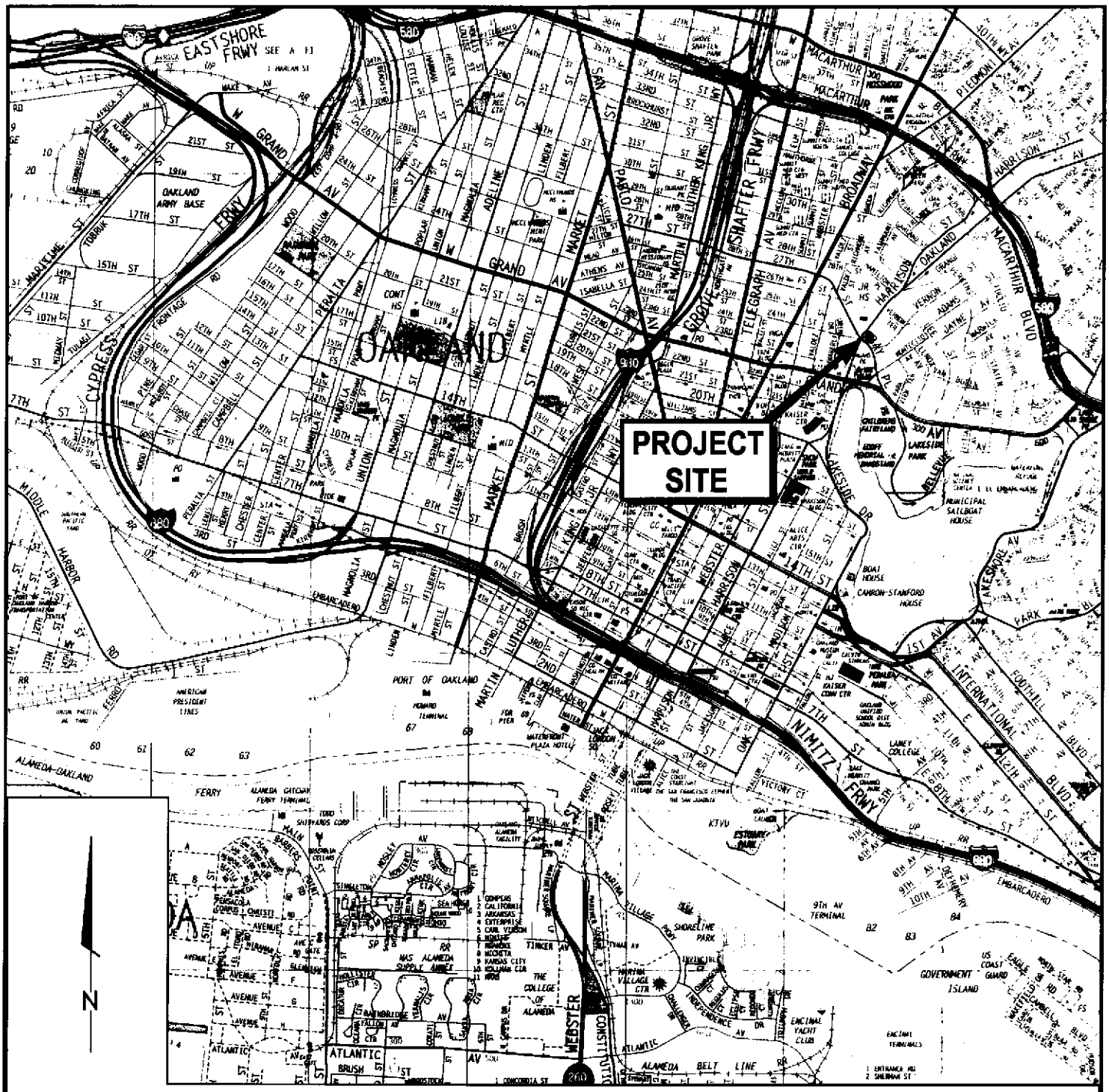
| Well Number | Date Measured | Time of Day | Total Dissolved Oxygen (mg/L) | Notes |
|---|---|---|---|---|
| MW-1 | 1/12/99 | 15:30 | 3.4 | (1) |
| | 3/11/99 | 15:46 | 0.72 | (1) |
| | 3/17/99 | 12:30 | 14.1 | (2) |
| | 3/17/99 | 18:13 | >15.0 | (3) |
| | 4/13/99 | 9:44 | 8.9 | (2) |
| | 6/1/99 | 14:59 | 6.2 | (2) |
| | 6/1/99 | 18:46 | >15.0 | (3) |
| | 7/7/99 | 9:20 | 3.55 | (2) |
| | 7/7/99 | 19:38 | >18.0 | (3) |
| | 8/19/99 | 10:45 | 1.0 | (2) |
| | 8/19/99 | 18:48 | >15.0 | (3) |
| | 10/6/99 | 10:42 | 10.3 | (2) |
| | 10/6/99 | 17:11 | >15.0 | (3) |
| | 11/17/99 | 11:13 | 4.4 | (2) |
| | 11/17/99 | 17:34 | >15.0 | (3) |
| | 1/11/00 | NA | 4.0 | (2) |
| | 4/6/01 | 10:55 | 0.45 | (4) |
| MW-2 | 1/12/99 | 12:30 | 3 | (1) |
| | 4/13/99 | 9:17 | 0.2 | (2) |
| | 4/13/99 | 19:11 | 0.6 | (3) |
| | 7/7/99 | 8:56 | 1.03 | (2) |
| | 7/7/99 | 19:13 | 7.22 | (3) |
| | 10/6/99 | 10:10 | 1.2 | (2) |
| | 10/6/99 | 16:58 | 0.5 | (3) |
| | 1/11/00 | NA | 3.9 | (2) |
| | 4/6/01 | 10:21 | 0.69 | (4) |
| TW-2 | 1/12/99 | 15:03 | 5.5 | (1) |
| | 4/13/99 | 9:10 | 2.6 | (2) |
| | 4/13/99 | 19:06 | 5.8 | (3) |
| | 7/7/99 | 8:50 | 0.65 | (2) |
| | 7/7/99 | 19:01 | 5.14 | (3) |
| | 10/6/99 | 9:59 | 3.2 | (2) |
| | 10/6/99 | 16:48 | 2.6 | (3) |
| | 1/11/00 | NA | 4.6 | (2) |
| | 4/6/01 | 9:45 | 2.9 | (4) |
| TW-4 | 3/11/99 | 15:20 | 3.4 | (1) |
| | 3/17/99 | 12:18 | 14.4 | (2) |
| | 3/17/99 | 17:54 | 12.6 | (3) |
| | 4/13/99 | 9:00 | 12.2 | (2) |
| | 4/13/99 | 19:03 | >15.0 | (3) |
| | 6/1/99 | 14:29 | 9.3 | (2) |
| | 6/1/99 | 18:33 | >15.0 | (3) |
| | 7/7/99 | 9:09 | >18.0 | (2) |
| | 7/7/99 | 19:36 | >18.0 | (3) |
| | 8/19/99 | 10:41 | 13.4 | (2) |
| | 8/19/99 | 18:27 | >15.0 | (3) |
| | 10/6/99 | 9:50 | >15.0 | (2) |
| | 10/6/99 | 16:40 | >15.0 | (3) |
| | 11/17/99 | 11:16 | 10.6 | (2) |
| | 11/17/99 | 17:35 | >15.0 | (3) |
| TW-5 | 1/12/99 | 16:40 | 1.7 | (1) |
| | 3/11/99 | 15:36 | 0.58 | (1) |
| | 3/17/99 | 12:20 | 14.3 | (2) |
| | 3/17/99 | 17:57 | 14.6 | (3) |
| | 4/13/99 | 9:39 | 3.8 | (2) |

**Table 3**
**Summary of Total Dissolved Oxygen Measurements**
**Interim Remedial Actions**
**Former Cox Cadillac, 230 Bay Place**
**Oakland, California**

| Well Number | Date Measured | Time of Day | Total Dissolved Oxygen (mg/L) | Notes |
|---|---|---|---|---|
| TW-5 (continued) | 4/13/99 | 19:28 | >15.0 | (3) |
| | 6/1/99 | 14:40 | 5.4 | (2) |
| | 6/1/99 | 18:38 | >15.0 | (3) |
| | 7/7/99 | 9:05 | 0.25 | (2) |
| | 7/7/99 | 19:32 | >18.0 | (3) |
| | 8/19/99 | 10:38 | 1.0 | (2) |
| | 8/19/99 | 18:33 | >15.0 | (3) |
| | 10/6/99 | 10:31 | 0.2 | (2) |
| | 10/6/99 | 17:08 | >15.0 | (3) |
| | 11/17/99 | 11:22 | 0.8 | (2) |
| | 11/17/99 | 17:37 | >15.0 | (3) |
| TW-6 | 1/12/99 | 15:02 | 3.9 | (1) |
| | 3/11/99 | 15:39 | 0.62 | (1) |
| | 3/17/99 | 12:23 | 14.1 | (2) |
| | 3/17/99 | 18:06 | >15.0 | (3) |
| | 4/13/99 | 9:35 | 14.2 | (2) |
| | 4/13/99 | 19:23 | >15.0 | (3) |
| | 6/1/99 | 14:48 | 11.1 | (2) |
| | 6/1/99 | 18:40 | >15.0 | (3) |
| | 7/7/99 | 9:00 | >18.0 | (2) |
| | 7/7/99 | 19:21 | >18.0 | (3) |
| | 8/19/99 | 10:35 | 14.8 | (2) |
| | 8/19/99 | 18:38 | >15.0 | (3) |
| | 10/6/99 | 10:27 | 3.8 | (2) |
| | 10/6/99 | 17:06 | >15.0 | (3) |
| | 11/17/99 | 11:24 | 1.5 | (2) |
| | 11/17/99 | 17:39 | >15.0 | (3) |
| | 1/11/00 | NA | 4.9 | (2) |
| | 4/6/01 | 10:00 | 0.78 | (4) |
| TW-7 | 1/12/99 | 13:10 | 2.7 | (1) |
| | 3/11/99 | 15:42 | 0.74 | (1) |
| | 3/17/99 | 12:25 | 6.5 | (2) |
| | 3/17/99 | 18:12 | 14 | (3) |
| | 4/13/99 | 9:25 | 0.4 | (2) |
| | 4/13/99 | 19:16 | >15.0 | (3) |
| | 6/1/99 | 14:52 | 0.7 | (2) |
| | 6/1/99 | 18:43 | >15.0 | (3) |
| | 7/7/99 | 9:15 | 0.26 | (2) |
| | 7/7/99 | 19:26 | >18.0 | (3) |
| | 8/19/99 | 10:30 | 0.9 | (2) |
| | 8/19/99 | 18:46 | >15.0 | (3) |
| | 10/6/99 | 10:19 | 0.5 | (2) |
| | 10/6/99 | 17:03 | >15.0 | (3) |
| | 11/17/99 | 11:28 | 1.1 | (2) |
| | 11/17/99 | 17:40 | >15.0 | (3) |
| | 1/11/00 | NA | 5.2 | (2) |
| | 4/6/01 | 11:25 | 0.53 | (4) |

**Notes:**

>15 = Above indicated equipment quantification maximum
(1) = Baseline measurement taken before initial introduction of enriched water
(2) = Measured prior to enriched water introduction, and water-level measurement and well purging
(3) = Measured after enriched water introduction
(4) = Measured prior to water-level measurement and well purging
mg/L = milligrams per liter
An initial approximate 200 gallons of enriched water was introduced to wells MW-1, TW-4, TW-5, TW-6, and TW-7 in the late afternoon of March 11 and 17, 1999 during setup, testing, and refinement of the remediation system. March 17 measurements reflect the initial introduction of enriched water.
NA = information not available



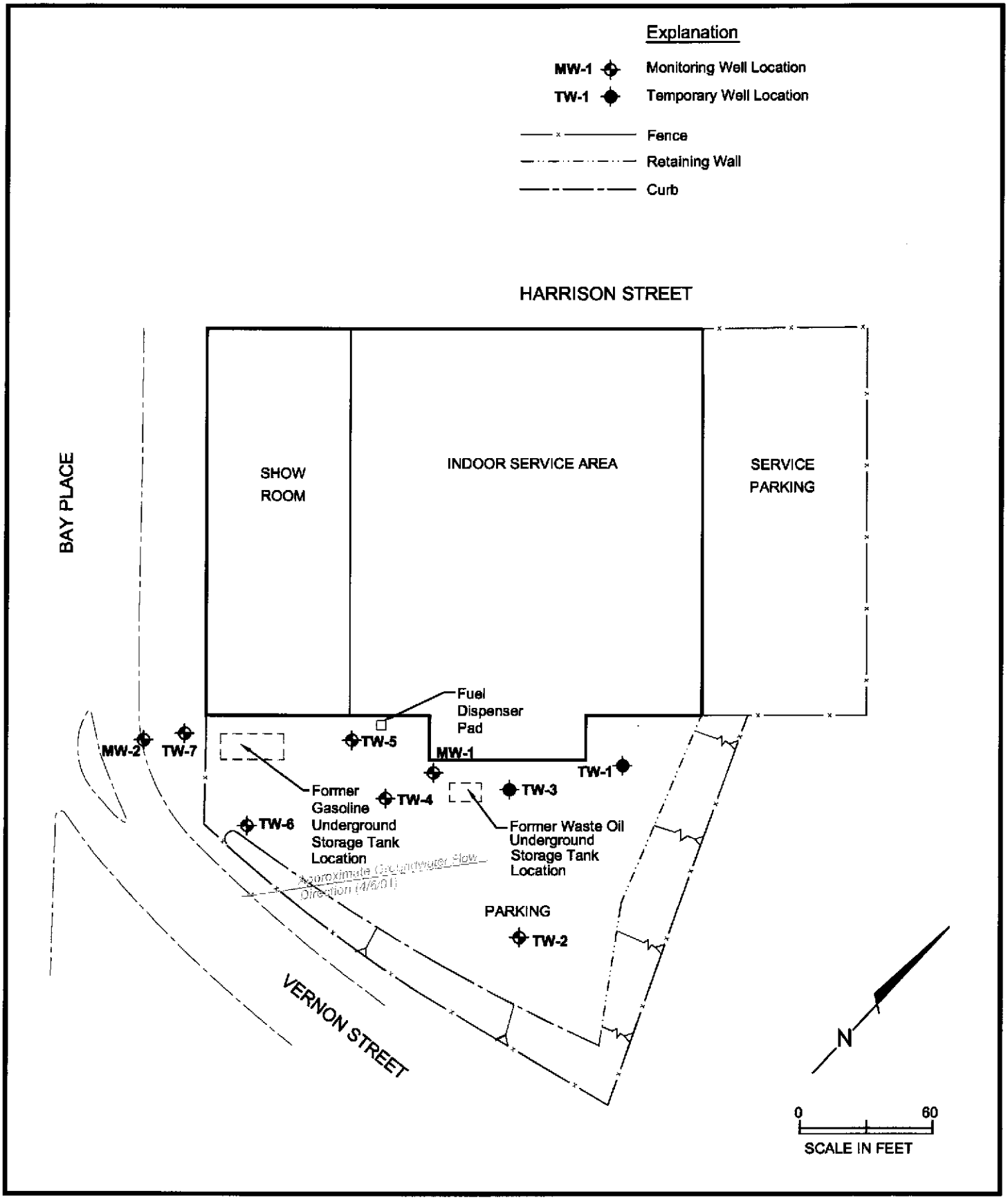

Ref: "The Thomas Guide- Alameda/Contra Costa Counties Street Guide and Directory" 1998 Edition

PES Environmental, Inc.
Engineering & Environmental Services

**Site Location Map**
Quarterly Groundwater Monitoring
Former Cox Cadillac-230 Bay Place
Oakland, California

PLATE
1

| 167.0201.006 | 1670200006_QTR-2001.dwg | FAB | 5/01 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

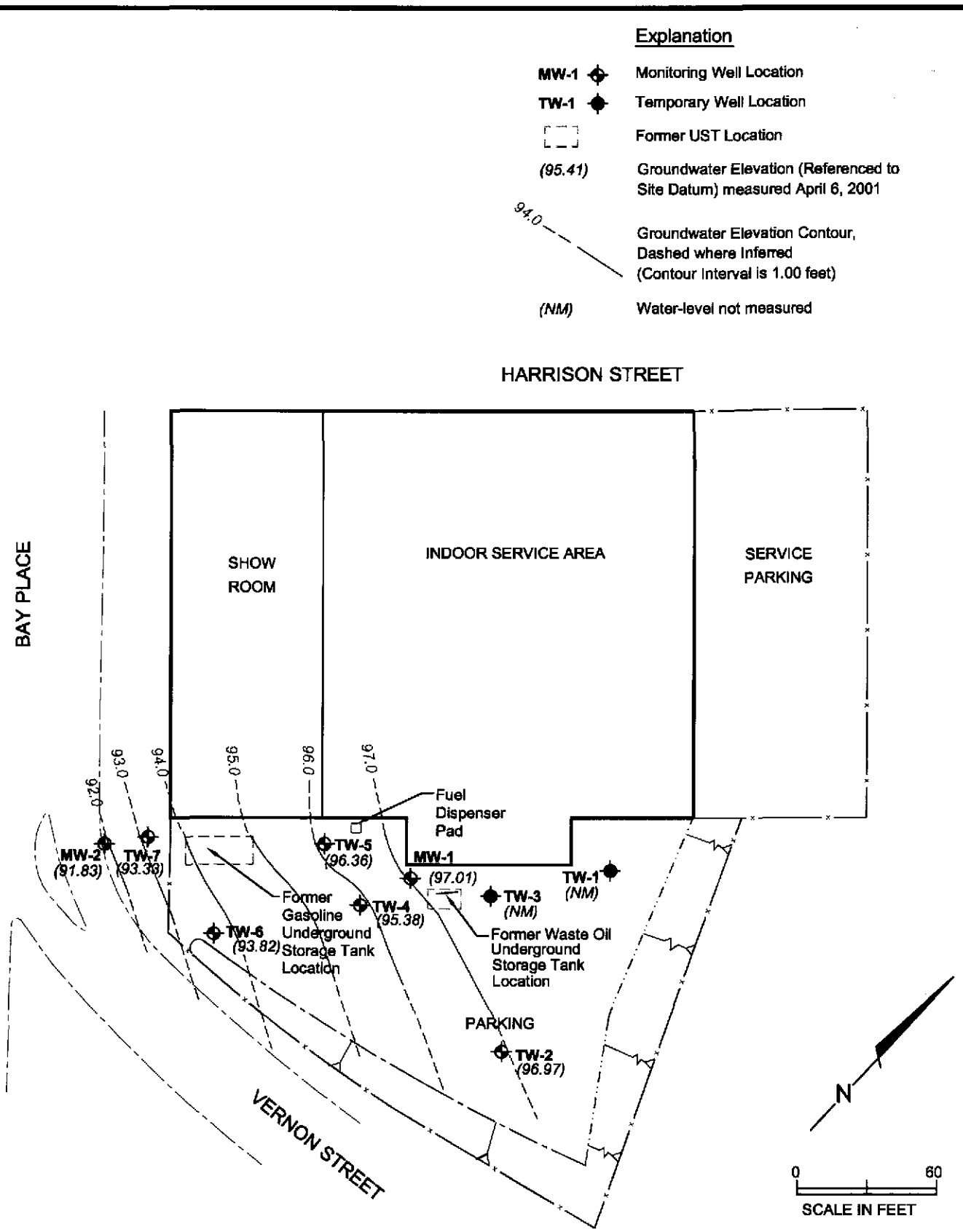



PES Environmental, Inc.
Engineering & Environmental Services

**Site Plan and Well Location Map**
Quarterly Groundwater Monitoring
Former Cox Cadillac-230 Bay Place
Oakland, California

PLATE 2

| 167.0201.006 | 1670200006_QTR-2001.dwg | | 5/01 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |




PES Environmental, Inc.
Engineering & Environmental Services

**Groundwater Elevation Contours on April 6, 2001**
Quarterly Groundwater Monitoring
Former Cox Cadillac-230 Bay Place
Oakland, California

PLATE
3

| 167.0201.006 | 1670200006_QTR-2001 | FAS | 6/01 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

## Explanation

MW-1 ⊕ Monitoring Well Location

TW-1 ● Temporary Well Location

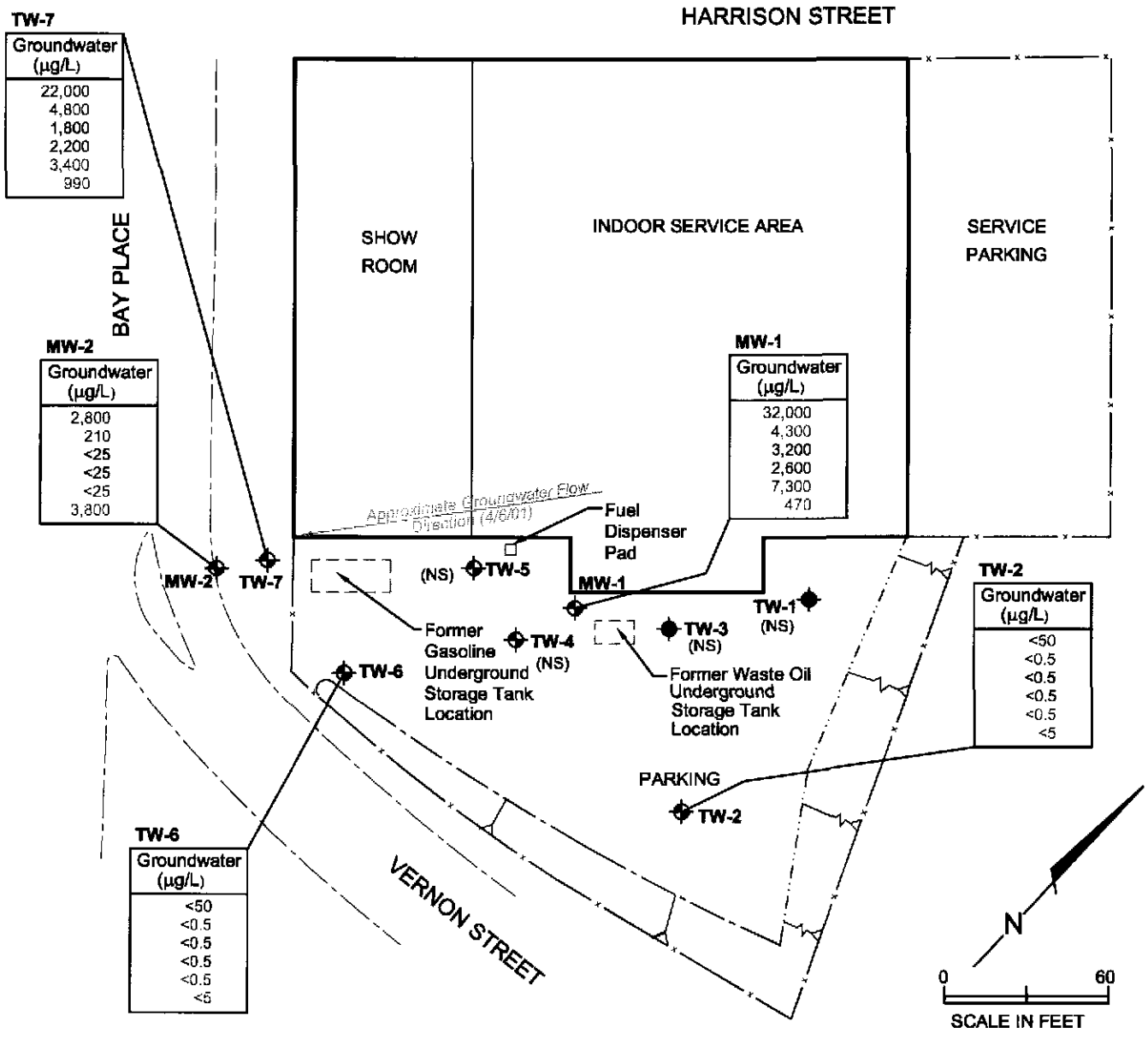
[ ] Former UST Location

(NS) Not Sampled

Concentrations of Dissolved Hydrocarbons in Micrograms per liter (µg/l) in Groundwater

| Groundwater (µg/L) |
|---|
| Total Petroleum Hydrocarbons as Gasoline |
| Benzene |
| Toluene |
| Ethylbenzene |
| Total Xylenes |
| Methyl Tert-Butyl Ether |

<0.50 Not detected at or above indicated laboratory reporting limit




PES Environmental, Inc.
Engineering & Environmental Services

**Distribution of Dissolved Hydrocarbons in Groundwater - April 6, 2001**
Quarterly Groundwater Monitoring
Former Cox Cadillac-230 Bay Place
Oakland, California

PLATE 4

| 167.0201.006 | 1670200006_QTR-2001.dwg | FAS | 5/01 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

# APPENDIX A

# WELL SAMPLING DOCUMENTATION

RECEIVED APR 16 2001

# WELL GAUGING DATA

Project # 010406-A1 Date 4-6-01 Client PES

Site 230 Bay Place. Oakland Ca.

| Well ID | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | w/o ORC |
|---|---|---|---|---|---|---|---|---|---|
| TW-2 | 2 | | | | | 3.46 | 7.76 | TOC | |
| TW-4 | 2 | | | | | 3.97 | 8.63 | | |
| TW-5 | 2 | | | | | 3.04 | 7.58 | | |
| TW-6 | 2 | | | | | 4.93 | 7.65 | | |
| TW-7 | 2 | | | | | 4.63 | 19.67 | | |
| MW-1 | 2 | | | | | 4.59 | 19.81 | | 299 |
| MW-2 | 2 | | | | | 5.65 | 9.55 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

# WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 010406-A1 | Client: PES |
| Sampler: A | Start Date: 4-6-01 |
| Well I.D.: MW-1 | Well Diameter: (2) 3 4 6 8 ____ |
| Total Well Depth: 19.81 | Depth to Water: 4.59 / 2.93 |
| Before: After: | Before: After: |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:

Bailer
(Disposable Bailer)
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

2.4 (Gals.) X 3 = 7.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| (2") | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1039 | 70.6 | 7.0 | 2764 | >200 | 1 5 | |
| 1044 | 59.8 | 6.8 | 3104 | >200 | 5 | |
| 1048 | 59.9 | 6.8 | 3110 | >200 | 7.5 | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Time: 1055 Sampling Date: 4-6-01

Sample I.D.: MW-1 Laboratory: ENTECH

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | (Pre-purge): | 4.5 mg/L | Post-purge: | mg/L |
| ORP (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 010406-A1 | Client: PES |
| Sampler: A | Start Date: 4-6-01 |
| Well I.D.: MW-2 | Well Diameter: (2) 3 4 6 8 ___ |
| Total Well Depth: 9.55 | Depth to Water: 5.65 |
| Before: After: | Before: After: |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:

Bailer
(Disposable Bailer)
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer

(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| (2) | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius$^2$ * 0.163 |

.6 (Gals.) X 3 = 1.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1013 | 60.8 | 6.6 | 2833 | 98 | 1 | |
| 1014 | 61.7 | 6.6 | 2857 | 181 | 1.5 | |
| 1016 | 61.8 | 6.6 | 2861 | 183 | 2 | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 2

Sampling Time: 1021 Sampling Date: 4-6-01

Sample I.D.: MW-2 Laboratory: ENTECH

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | (Pre-purge): | .69 mg/L | Post-purge: | mg/L |
| ORP (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 010406-A1 | Client: PES |
| Sampler: A | Start Date: 4-6-01 |
| Well I.D.: TW-2 | Well Diameter: (2) 3 4 6 8 ___ |
| Total Well Depth: 7.76 | Depth to Water: 3.46 |
| Before: After: | Before: After: |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:

Bailer
~~Disposable Bailer~~
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| (2") | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

.6 (Gals.) X 3 = 1.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 936 | 61.0 | 6.5 | 3931 | 104 | 5 | |
| 937 | 61.7 | 6.6 | 4531 | 158 | 1 | |
| 939 | 61.9 | 6.6 | 4504 | 199 | 2 | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 2

Sampling Time: 945 Sampling Date: 4-6-01

Sample I.D.: TW-2 Laboratory: ENTECH

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | (Pre-purge): | 2.9 mg/L | Post-purge: | mg/L |
| ORP (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 010406-A1 | Client: PES |
| Sampler: A | Start Date: 4-6-01 |
| Well I.D.: TW-6 | Well Diameter: (2) 3 4 6 8 ___ |
| Total Well Depth: 7.65 | Depth to Water: 4.93 |
| Before: After: | Before: After: |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:

- Bailer
- (Disposable Bailer)
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: Bailer

- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: _____

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| (2") | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

.4 (Gals.) X 3 = 1.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 952 | 59.5 | 8.4 | 347 | >200 | 5 | |
| 953 | 60.4 | 8.2 | 312 | >200 | 1 | |
| 954 | 60.5 | 8.1 | 300 | >200 | 1.5 | |
| | | | | | | |
| | | | | | | |

| | | | |
|---|---|---|---|
| Did well dewater? Yes (No) | | Gallons actually evacuated: 1.5 | |
| Sampling Time: 1000 | | Sampling Date: 4-6-01 | |
| Sample I.D.: TW-6 | | Laboratory: ENTECH | |
| Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D | | Other: | |
| Equipment Blank I.D.: @ Time | | Duplicate I.D.: | |
| Analyzed for: TPH-G BTEX MTBE TPH-D | | Other: | |
| D.O. (if req'd): (Pre-purge): | .78 mg/L | Post-purge: | mg/L |
| ORP (if req'd): Pre-purge: | mV | Post-purge: | mV |

# WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 010406-A1 | Client: PES |
| Sampler: A | Start Date: 4-6-01 |
| Well I.D.: TW-7 | Well Diameter: (2) 3 4 6 8 ___ |
| Total Well Depth: 19.67 | Depth to Water: 9.63 |
| Before: After: | Before: After: |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:

| | | |
|---|---|---|
| Bailer | Waterra | |
| (Disposable Bailer) | Peristaltic | |
| Middleburg | Extraction Pump | |
| Electric Submersible | Other_____ | |

Sampling Method: Bailer

(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

2.4 (Gals.) X 3 = 7.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| (2") | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1109 | 60.8 | 6.9 | 836 | >200 | 2.5 | odor |
| 1114 | 61.7 | 6.8 | 866 | >200 | 5 | |
| 1119 | 61.9 | 6.8 | 822 | >200 | 7.5 | |
| | | | | | | |
| | | | | | | |

| | | | |
|---|---|---|---|
| Did well dewater? Yes (No) | | Gallons actually evacuated: 7.5 | |
| Sampling Time: 1125 | | Sampling Date: 4-6-01 | |
| Sample I.D.: TW-7 | | Laboratory: ENTECH | |
| Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D | | Other: | |
| Equipment Blank I.D.: @ Time | | Duplicate I.D.: | |
| Analyzed for: TPH-G BTEX MTBE TPH-D | | Other: | |
| D.O. (if req'd): (Pre-purge): | .53 mg/L | Post-purge: | mg/L |
| ORP (if req'd): Pre-purge: | mV | Post-purge: | mV |

# APPENDIX B

## LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

# Entech Analytical Labs, Inc.

RECEIVED APR 2 5 2001

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

April 18, 2001

Andy Briefer
PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947

**Order:** 25142
**Project Name:**
**Project Number:** BTS# 010406-A1
**Project Notes:**

**Date Collected:** 4/6/01
**Date Received:** 4/9/01
**P.O. Number:** BTS# 010406-A1

On April 09, 2001, samples were received under documentented chain of custody. Results for the following analyses are attached:

| Matrix | Test | Method |
|---|---|---|
| Liquid | Gas/BTEX/MTBE | EPA 8015 MOD. (Purgeable) |
| | | EPA 8020 |
| | MTBE by EPA 8260B | EPA 8260B |

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson
Lab Director

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**PES Environmental, Inc.**
**1682 Novato Boulevard, Suite 100**
**Novato, CA 94947**
**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-001 **Client Sample ID:** MW-1

**Sample Time:** 10:55 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 4300 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Toluene | 3200 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Ethyl Benzene | 2600 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Xylenes, Total | 7300 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 93 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | 470 | | 50 | 5 | 250 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 93 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 32000 | | 50 | 50 | 2500 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 85 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**PES Environmental, Inc.**
**1682 Novato Boulevard, Suite 100**
**Novato, CA 94947**
**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-002 **Client Sample ID:** MW-2

**Sample Time:** 10:21 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 210 | | 50 | 0.5 | 25 | µg/L | N/A | 4/16/01 | WGC4010412 | EPA 8020 |
| Toluene | ND | | 50 | 0.5 | 25 | µg/L | N/A | 4/16/01 | WGC4010412 | EPA 8020 |
| Ethyl Benzene | ND | | 50 | 0.5 | 25 | µg/L | N/A | 4/16/01 | WGC4010412 | EPA 8020 |
| Xylenes, Total | ND | | 50 | 0.5 | 25 | µg/L | N/A | 4/16/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 98 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | 3800 | | 50 | 5 | 250 | µg/L | N/A | 4/16/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 98 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 2800 | x | 50 | 50 | 2500 | µg/L | N/A | 4/16/01 | WGC4010412 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 101 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**PES Environmental, Inc.**
**1682 Novato Boulevard, Suite 100**
**Novato, CA 94947**
**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-003 **Client Sample ID:** TW-2

**Sample Time:** 9:45 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Toluene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Ethyl Benzene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Xylenes, Total | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 102 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | ND | | 1 | 5 | 5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 102 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | ND | | 1 | 50 | 50 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 104 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**PES Environmental, Inc.**
**1682 Novato Boulevard, Suite 100**
**Novato, CA 94947**
**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-004 **Client Sample ID:** TW-6

**Sample Time:** 10:00 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Toluene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Ethyl Benzene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Xylenes, Total | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 98 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | ND | | 1 | 5 | 5 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 98 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | ND | | 1 | 50 | 50 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 100 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-005 **Client Sample ID:** TW-7

**Sample Time:** 11:25 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 4800 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Toluene | 1800 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Ethyl Benzene | 2200 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |
| Xylenes, Total | 3400 | | 50 | 0.5 | 25 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 91 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | 990 | | 50 | 5 | 250 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 91 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 22000 | | 50 | 50 | 2500 | µg/L | N/A | 4/13/01 | WGC4010412 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 85 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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**Novato, CA 94947**
**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-001 **Client Sample ID:** MW-1

**Sample Time:** 10:55 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | ND | | 2 | 5 | 10 | µg/L | 4/17/01 | WMS2010413 | EPA 8260B |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 99 | 65 - 135 |
| Dibromofluoromethane | 97 | 57 - 139 |
| Toluene-d8 | 102 | 65 - 135 |

**Comment:** Sample diluted due to high concentrations of non-target hydrocarbons.

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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**Novato, CA 94947**
**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-002 **Client Sample ID:** MW-2

**Sample Time:** 10:21 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | 3900 | | 50 | 5 | 250 | µg/L | 4/17/01 | WMS2010413 | EPA 8260B |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 96 | 65 - 135 |
| Dibromofluoromethane | 90 | 57 - 139 |
| Toluene-d8 | 100 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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**PES Environmental, Inc.**
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**Novato, CA 94947**
**Attn: Andy Briefer**

Date: 4/18/01
Date Received: 4/9/01
Project Name:
Project Number: BTS# 010406-A1
P.O. Number: BTS# 010406-A1
Sampled By: Client

## Certified Analytical Report

**Order ID:** 25142 **Lab Sample ID:** 25142-005 **Client Sample ID:** TW-7

**Sample Time:** 11:25 AM **Sample Date:** 4/6/01 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | 690 | | 10 | 5 | 50 | µg/L | 4/17/01 | WMS2010413 | EPA 8260B |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 97 | 65 - 135 |
| Dibromofluoromethane | 90 | 57 - 139 |
| Toluene-d8 | 100 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

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## STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

| Qualifier (Flag) | Description |
|---|---|
| U | Compound was analyzed for but not detected |
| J | Estimated value for tentatively identified compounds or if result is below PQL but above MDL |
| N | Presumptive evidence of a compound (for Tentatively Identified Compounds) |
| B | Analyte is found in the associated Method Blank |
| E | Compounds whose concentrations exceed the upper level of the calibration range |
| D | Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution |
| X | Results within quantitation range; chromatographic pattern not typical of fuel |

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

## Quality Control Results Summary

**QC Batch #:** WMS2010413 **Units:** µg/L
**Matrix:** Liquid **Date Analyzed:** 4/13/01

| Parameter | Method | Blank Result | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test:** Oxygenates by EPA 8260B | | | | | | | | | | | |
| Methyl-t-butyl Ether | EPA 8260B | ND | | 20 | | 19.2 | LCS | 96.0 | | | 65.0 - 135.0 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 90 | 65 - 135 |
| Dibromofluoromethane | 87 | 57 - 139 |
| Toluene-d8 | 88 | 65 - 135 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test:** Oxygenates by EPA 8260B | | | | | | | | | | | |
| Methyl-t-butyl Ether | EPA 8260B | ND | | 20 | | 20.4 | LCSD | 102.0 | 6.06 | 25.00 | 65.0 - 135.0 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 92 | 65 - 135 |
| Dibromofluoromethane | 92 | 57 - 139 |
| Toluene-d8 | 86 | 65 - 135 |

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

**QC Batch #:** WGC4010412 **Units:** µg/L
**Matrix:** Liquid **Date Analyzed:** 4/12/01

| Parameter | Method | Blank Result | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test:** TPH as Gasoline | | | | | | | | | | | |
| TPH as Gasoline | EPA 8015 M | ND | | 561 | | 439.2 | LCS | 78.3 | | | 65.0 - 135.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 95 | | 65 - 135 | | | | | |
| **Test:** BTEX | | | | | | | | | | | |
| Benzene | EPA 8020 | ND | | 6.2 | | 5.75 | LCS | 92.7 | | | 65.0 - 135.0 |
| Ethyl Benzene | EPA 8020 | ND | | 7.8 | | 7.03 | LCS | 90.1 | | | 65.0 - 135.0 |
| Toluene | EPA 8020 | ND | | 35.8 | | 33.4 | LCS | 93.3 | | | 65.0 - 135.0 |
| Xylenes, total | EPA 8020 | ND | | 43 | | 36.7 | LCS | 85.3 | | | 65.0 - 135.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 101 | | 65 - 135 | | | | | |
| **Test:** MTBE by EPA 8020 | | | | | | | | | | | |
| Methyl-t-butyl Ether | EPA 8020 | ND | | 52.8 | | 46.3 | LCS | 87.7 | | | 65.0 - 135.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 101 | | 65 - 135 | | | | | |
| **Test:** TPH as Gasoline | | | | | | | | | | | |
| TPH as Gasoline | EPA 8015 M | ND | | 561 | | 436.7 | LCSD | 77.8 | 0.57 | 25.00 | 65.0 - 135.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 93 | | 65 - 135 | | | | | |
| **Test:** BTEX | | | | | | | | | | | |
| Benzene | EPA 8020 | ND | | 6.2 | | 5.64 | LCSD | 91.0 | 1.93 | 25.00 | 65.0 - 135.0 |
| Ethyl Benzene | EPA 8020 | ND | | 7.8 | | 6.99 | LCSD | 89.6 | 0.57 | 25.00 | 65.0 - 135.0 |
| Toluene | EPA 8020 | ND | | 35.8 | | 33.8 | LCSD | 94.4 | 1.19 | 25.00 | 65.0 - 135.0 |
| Xylenes, total | EPA 8020 | ND | | 43 | | 36.8 | LCSD | 85.6 | 0.27 | 25.00 | 65.0 - 135.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 97 | | 65 - 135 | | | | | |
| **Test:** MTBE by EPA 8020 | | | | | | | | | | | |
| Methyl-t-butyl Ether | EPA 8020 | ND | | 52.8 | | 45.3 | LCSD | 85.8 | 2.18 | 25.00 | 65.0 - 135.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 97 | | 65 - 135 | | | | | |

PLAINE
TECH SERVICES, INC.
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB: Entech | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER

CHAIN OF BTS # 010406-A1

CLIENT: PES

SITE: 230 Bay Place
Oakland, CA

SPECIAL INSTRUCTIONS

RECEIVED APR 16 2001

Invoice and Report to : PES

Attn: Chris Rossitto

* Confirm MTBE hits by EPA 8260

| SAMPLE I.D. | DATE | TIME | MATRIX S=SOIL W=$H_2O$ | CONTAINERS TOTAL | HCl/VOA | C = COMPOSITE ALL CONTAINERS | TPH - Gas (8015) | BTEX (8020) | MTBE (8020) * | ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 4/6/01 | 1055 | W | 3 | HCl/VOA | | X | X | X | | | 25142 | -001 |
| MW-2 | | 1021 | | | | | X | X | X | | | | -002 |
| TW-2 | | 945 | | | | | X | X | X | | | | -003 |
| TW-6 | | 1000 | | | | | X | X | X | | | | -004 |
| TW-7 | | 1125 | | 4 | | | X | X | X | | | | -005 |

SAMPLING COMPLETED: DATE 4/6/01 TIME

SAMPLING PERFORMED BY: Oscar Angulo

RESULTS NEEDED NO LATER THAN: Per Client

| RELEASED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
|---|---|---|---|---|---|
| [signature] | 4/9/01 | 1:30 | [signature] | 4/9/01 | 18:20 |
| [signature] | | | | | |
| | | | | | |

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #