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**JANUARY 1995
QUARTERLY MONITORING AND
SAMPLING REPORT
505 CEDAR STREET
OAKLAND, CALIFORNIA**

Prepared For:

STATE DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL ENGINEERING BRANCH
OAKLAND, CALIFORNIA

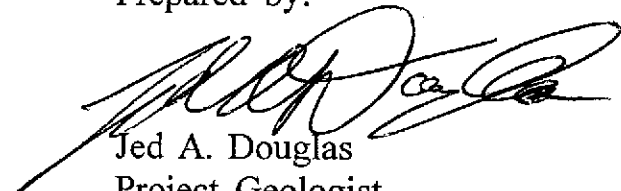
Contract Number 53U495
Task Order Number 04-192211-05

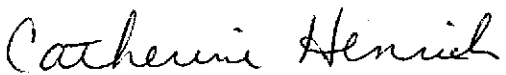
Submitted by:

ENVIRONMENTAL SOLUTIONS, INC.
PETALUMA, CALIFORNIA

March 8, 1995

Prepared by:


Jed A. Douglas
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STATE OF CALIFORNIA

OFFICE MEMO
STD. 100 (REV. 10-81)

DATE
3/22/95

TO

Susun Hugo

ROOM/STA. NO.

FROM

PHONE NUMBER

ATSS

286-5647
ROOM/STA. NO.

Chris Wilson

SUBJECT

Cal-East Foods Monitoring Wells

Susun:

Here is the report for the third round
of samples from the monitoring wells at
the former Cal-East Foods.

Chris Wilson

95 MAR 24 PM 12:45

ENVIRONMENTAL
PROTECTION

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DISTRIBUTION

94911qm2.013

All Environmental Solutions Inc.'s letter
and second sheet are recycled paper.

Contract #53U495
Task Order #04-192211-05

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The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the California Department of Transportation or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

1.0 INTRODUCTION

1. Environmental Solutions, Inc. has prepared the January 1995 Quarterly Monitoring and Sampling Report for the California Department of Transportation site (Site), located at 505 Cedar Street in Oakland, California (Figure 1), as part of Task Order 04-192211-05 of Contract Number 53U495.
2. In July 1994, Environmental Solutions, Inc. installed three ground water monitoring wells (Monitoring Wells MW-1, MW-2, and MW-3; Figure 2) at the Site to assess if the ground water in the vicinity of the former Underground Storage Tank (UST) had been impacted by petroleum hydrocarbons. The monitoring wells were developed and sampled after installation in July 1994. The results showed the presence of Total Petroleum Hydrocarbons as gasoline (TPH-gas) and Volatile Organic Compounds (VOCs)¹. The first quarterly monitoring event occurred in October 1994, and the results are presented in a report prepared by Environmental Solutions, Inc.². This report presents the results of the second quarterly monitoring event performed by Environmental Solutions, Inc.

⁽¹⁾ *Soil and Ground Water Investigation Report, Cal East Site, 505 Cedar Street, Oakland, California, dated September 27, 1994.*

⁽²⁾ *October 1994 Quarterly Monitoring and Sampling Report, 505 Cedar Street, Oakland, California, dated December 12, 1994.*

2.0 GROUND WATER SAMPLING PROCEDURES

1. The quarterly monitoring activities were performed on January 19, 1995. The traffic-rated well surface covers were unscrewed and removed, and the well casing's water-resistant, expandable caps unlocked and removed. Ground water levels were measured with an electric sounder in each of the three monitoring wells on the Site (Figure 2). After the water levels were measured and recorded, a minimum of three wet well casing volumes were purged from the monitoring wells. Temperature, conductivity and pH measurements of the purge water were recorded during well evacuation procedures. Prior to purging the monitoring wells, all sampling equipment was decontaminated with analconox wash and deionized water rinse, before and after each use. Prior to sampling, a minimum of 90 percent of the original water volume was allowed to recover in each well.
2. For each well, ground water samples were collected using a new disposable plastic bailer with fresh twine, and the collected ground water was released through new disposable VOC samplers into clean, laboratory-supplied sample bottles. Each sample bottle was labeled with the well number, sampler's name, and the date and time the sample was collected. After collection, the filled bottles were capped and placed in a cooler packed with blue ice, and transported under Chain-of-Custody documentation to Chromalab, Inc. (Chromalab), located in Pleasanton, California, for analysis.
3. Purge and decontamination rinsate water were placed in labeled Department of Transportation's (DOT) approved 55-gallon drums, pending laboratory analyses for evaluation of disposal alternatives.

3.0 ANALYTICAL PROGRAM

1. Ground water samples collected from Monitoring Wells MW-1, MW-2 and MW-3 were analyzed by Chromalab. The analytical program included the following analyses:
 - EPA Method 6010, Heavy Metal Scan
 - EPA Method 8015, Modified for Total Petroleum Hydrocarbons as Gasoline
 - EPA Method 5520, Oil and Grease
 - EPA Method 8015, Modified for Total Petroleum Hydrocarbons as Diesel
 - EPA Method 8240, VOCs
2. Chromalab filtered and preserved the ground water samples according to EPA testing procedures prior to analyzing the samples by EPA Method 6010, Heavy Metal Scan.

4.0 RESULTS

1. Table 1 presents the results of the depth to water measurements and ground water elevations. Table 2 presents the pH, temperature, and conductivity measurements collected during well evacuation procedures.
2. On the basis of depth to water measurements measured on January 19, 1995, it appears that the ground water flows toward the northeast at a gradient of 0.029 vertical feet per horizontal foot (Figure 3).
3. Analytical results are presented in Table 3 and Figure 4, and the results are summarized below. Certified analytical laboratory results and Chain-of-Custody documentation are presented in Appendix A.
4. TPH-gas was detected in Monitoring Well MW-3 at a concentration of 2.9 milligrams per liter (mg/l). TPH-gas was not detected at or above the laboratory's reporting limit in the other two monitoring wells onsite. TPH-diesel, and oil and grease, were not detected in the three ground water monitoring wells at concentrations at or above the laboratories reported detection limits.
5. In each of the monitoring wells, results of the metals analysis show the presence of several constituents at concentrations below their respective Maximum Contaminant Levels (MCLs)³. However, total chromium was detected in Monitoring Well MW-2 at a concentration of 0.05 mg/l, which is the MCL for this metal.

⁽³⁾ State of California Department of Health Services, *Summary of California Drinking Water Standards*, November 1994.

6. Results of the VOC analyses show detectable concentrations of benzene (16 micrograms per liter [ug/l]) and 1,2-Dichloroethane (1,2-DCA [26 ug/l]) in ground water samples collected from Monitoring Well MW-1. Ground water samples collected from Monitoring Well MW-3 had detectable concentrations of benzene (7.3 ug/l), ethylbenzene (20 ug/l), and total xylenes (7.7 ug/l). No other constituents were detected at concentrations at or above the laboratory's reported detection limits.

5.0 DISCUSSION

1. The ground water flow direction calculated this quarter is trending more northerly than the October 1994 calculated flow direction. The apparent fluctuation in ground water flow direction at the site may be influenced by several factors. Two of the monitoring wells are composed of 2-inch poly vinyl chloride (PVC), while the third is composed of 4-inch PVC. All three monitoring wells have different total depths, which causes the screened intervals to vary between the wells. A backfilled excavation is present between the three wells in the location of the former UST, which may influence the ground water pattern. Other factors, including seasonal fluctuations in water levels, local variation in soil composition, and the presence of braided stream channel sediments known to exist in the west Oakland area, may also be affecting the ground water flow patterns.
2. TPH-gas was detected in ground water samples collected from Monitoring Well MW-3 at a concentration slightly higher than previously detected in past sampling events.
3. Thallium, a heavy metal, was not detected in ground water samples collected during this sampling event. Thallium was detected in the July 1994 sampling event, in ground water samples collected from Monitoring Wells MW-1 and MW-2, at concentrations which exceed the MCL of 0.002 mg/l. This compound will continue to be monitored during the next quarterly monitoring event.
4. Lead, which was detected in ground water samples from Monitoring Well MW-2 in October 1994, was not detected during this sampling event. This metal will continue to be monitored during the next quarterly monitoring event.

5. Benzene, ethylbenzene, and total xylenes were detected for the first time this quarter in ground water samples collected from Monitoring Well MW-3. Benzene and 1,2-DCA were detected for the second and third time, respectively, in ground water samples collected from Monitoring Well MW-1. Benzene concentrations detected in ground water samples collected from Monitoring Well MW-1 and MW-3, and 1,2-DCA concentrations detected in ground water samples collected from Monitoring Well MW-1, exceeded their respective MCLs of 0.001 mg/l, and 0.0005 mg/l.

6.0 SCHEDULE

1. Environmental Solutions, Inc. will perform one more quarterly ground water monitoring and sampling event. This final sampling event is scheduled to take place in April 1995.

TABLE 1: WATER LEVEL DATA

Caltrans - 505 Cedar Street

Environmental Solutions, Inc. Project Number 94-911

| Well Identification | Top of Casing Elevation* | Measuring Date | Depth to Water # | Water Level Elevation* |
|---------------------|--------------------------|----------------|------------------|------------------------|
| MW-1 | 9.25 | 7/22/94 | 8.83 | 0.42 |
| | | 10/27/94 | 8.315 | 0.935 |
| | | 1/19/95 | 4.91 | 4.34 |
| MW-2 | 9.84 | 7/22/94 | 9.24 | 0.60 |
| | | 10/27/94 | 8.82 | 1.02 |
| | | 1/19/95 | 5.31 | 4.53 |
| MW-3 | 9.41 | 7/22/94 | 8.94 | 0.47 |
| | | 10/27/94 | 8.41 | 1.00 |
| | | 1/19/95 | 3.78 | 5.63 |

* = Measurements in feet above USGS Mean Sea Level

= Depths measured in feet from top of casing

TABLE 2: TEMPERATURE, pH, AND CONDUCTIVITY MEASUREMENTS

Caltrans - 505 Cedar Street

Environmental Solutions, Inc. Project Number 94-911

| Well Identification | Measuring Date | Temperature* | pH | Conductivity+ |
|---------------------|----------------|--------------|-----|---------------|
| MW-1 | 7/27/94 | 67.0 | NA | 1158 |
| | 10/27/94 | 70.6 | 7.0 | 1103 |
| | 1/19/95 | 66.0 | 6.6 | 1410 |
| MW-2 | 7/27/94 | 65.4 | NA | 1040 |
| | 10/27/94 | 67.8 | 7.1 | 916 |
| | 1/19/95 | 63.0 | 7.0 | 740 |
| MW-3 | 7/27/94 | 66.6 | NA | 1756 |
| | 10/27/94 | 68.4 | 6.8 | 1374 |
| | 1/19/95 | 60.0 | 6.6 | 980 |

* Temperature in degrees fahrenheit
 + = Conductivity in umhos
 NA = not available

Table 3: Analytical Results, 505 Cedar Street, Oakland, California

| Monitoring Well | Date | Hydrocarbons (mg/l) | | | | 6010 Metals (mg/l) | | | | | | | | | |
|-----------------|----------|---------------------|-----------------------|--------------|---------------------|--------------------|-------------|-----------------|----------|-----------|-----------|-----------|----------|------------------|--------|
| | | Hydrocarbons | Detection Limit | 8015m-Diesel | 5520-Oil and Grease | 8015m-Gasoline | 6010 Metals | Detection Limit | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium (total) | Cobalt |
| MW-1 | 7/27/94 | mg/l | ND(0.05) | ND(1.0) | 0.12 | mg/l | ND(0.02) | ND(0.005) | 0.069 | ND(0.001) | ND(0.001) | 0.011 | ND(0.01) | ND(0.005) | |
| | 10/27/94 | mg/l | ND(0.05) | ND(5.0) | 0.45 | mg/l | ND(0.02) | 0.011 | 0.076 | ND(0.001) | 0.001 | ND(0.01) | ND(0.01) | ND(0.005) | |
| | 1/19/95 | mg/l | ND(0.05) | ND(1.0) | ND(0.05) | mg/l | ND(0.02) | ND(0.005) | 0.075 | ND(0.001) | ND(0.001) | ND(0.05) | ND(0.01) | ND(0.005) | |
| MW-2 | 7/27/94 | mg/l | ND(0.05) | ND(1.0) | ND(0.05) | mg/l | ND(0.02) | ND(0.005) | 0.011 | ND(0.001) | ND(0.001) | ND(0.01) | ND(0.01) | ND(0.005) | |
| | 10/27/94 | mg/l | ND(0.05) | ND(5.0) | ND(0.05) | mg/l | ND(0.02) | 0.005 | 0.12 | ND(0.001) | 0.003 | 0.02 | ND(0.01) | 0.02 | |
| | 1/19/95 | mg/l | ND(0.05) | ND(1.0) | ND(0.05) | mg/l | ND(0.02) | ND(0.005) | 0.081 | ND(0.001) | 0.004 | 0.05 | ND(0.01) | 0.005 | |
| MW-3 | 7/27/94 | mg/l | ND(0.05) ^a | ND(1.0) | 0.13 | mg/l | ND(0.02) | ND(0.005) | 0.21 | ND(0.001) | ND(0.001) | ND(0.01) | ND(0.01) | ND(0.005) | |
| | 10/27/94 | mg/l | ND(0.05) | ND(5.0) | 0.07 | mg/l | ND(0.02) | 0.009 | 0.15 | ND(0.001) | ND(0.001) | ND(0.01) | ND(0.01) | ND(0.005) | |
| | 1/19/95 | mg/l | ND(0.05) | ND(1.0) | 2.9 | mg/l | ND(0.02) | ND(0.005) | 0.18 | ND(0.001) | ND(0.001) | ND(0.05) | ND(0.01) | ND(0.005) | |

a = Unknown hydrocarbon identified in gasoline/kerosene range, quantified as 0.062 mg/l
 ND (0.05) Not Detected at or above reporting limit, reporting limit in parentheses.

Table 3: Analytical Results, 505 Cedar Street, Oakland, California

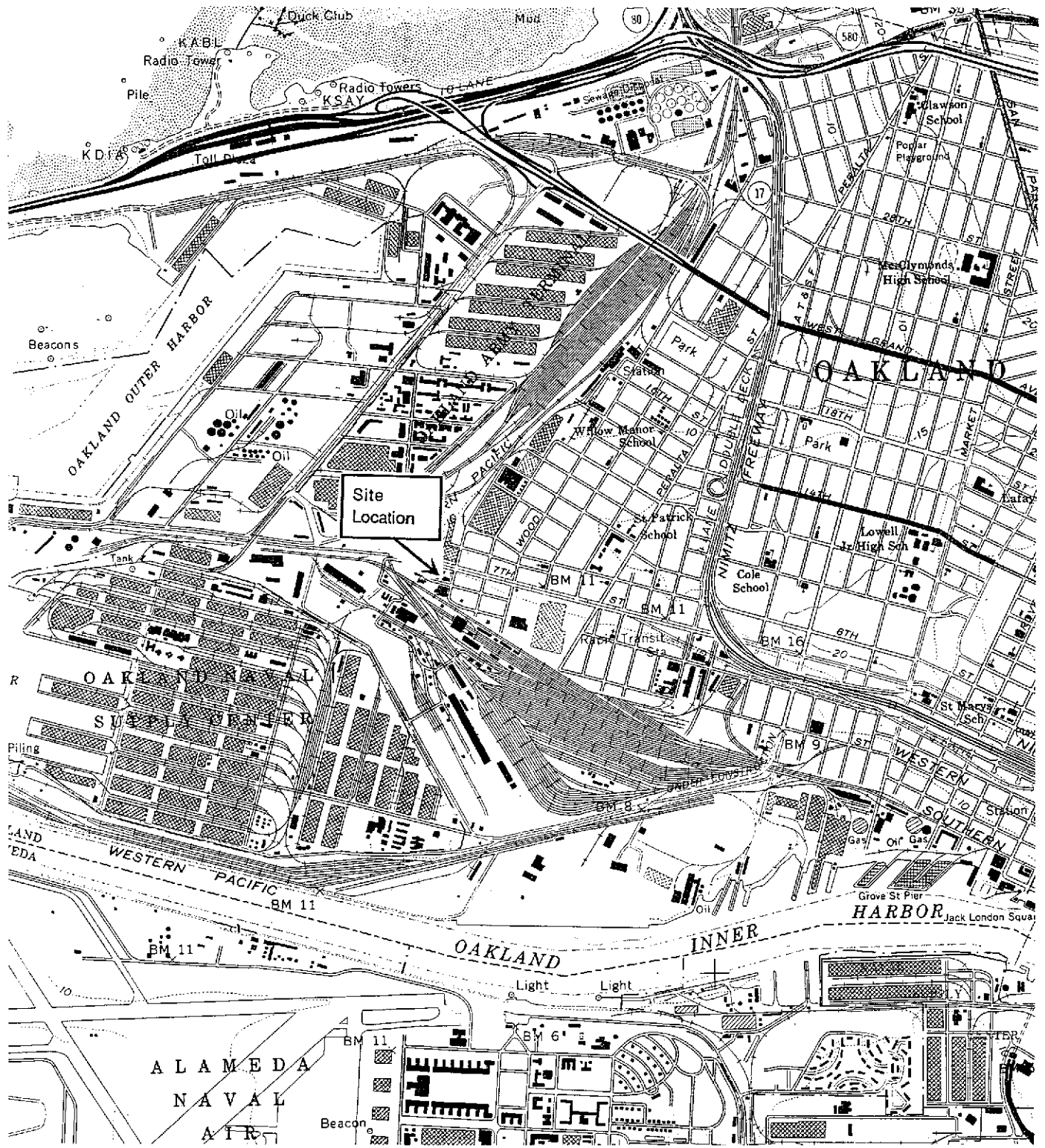
| Monitoring Well | Date | 6010 Metals (mg/l) | | | | | | | | | 8240 VOCs (ug/l) | | | | | |
|-----------------|----------|--------------------|------------|----------|----------|-----------|----------|----------|----------|-----------|------------------|-----------------|---------|---------|----------------------|-----------|
| | | Lead | Molybdenum | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc | Mercury | 8240 VOC's | Detection Limit | Acetone | Benzene | Bromodichloromethane | Bromoform |
| MW-1 | 7/27/94 | ND(0.01) | 0.0059 | ND(0.02) | ND(0.01) | ND(0.005) | 0.04 | ND(0.01) | 0.38 | ND(0.001) | ug/L | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(0.01) | ND(0.005) | ND(0.02) | ND(0.01) | ND(0.005) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.001) | ug/L | ND(5.0) | 37 | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(0.01) | ND(0.005) | ND(0.05) | ND(0.01) | ND(0.005) | ND(0.01) | ND(0.01) | 0.15 | 0.001 | ug/L | ND(5.0) | 16 | ND(2.0) | ND(2.0) | ND(2.0) |
| MW-2 | 7/27/94 | ND(0.01) | 0.0066 | ND(0.02) | ND(0.01) | ND(0.005) | 0.017 | ND(0.01) | 0.012 | ND(0.001) | ug/L | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | 0.01 | ND(0.005) | 0.02 | ND(0.01) | ND(0.005) | ND(0.01) | 0.01 | 0.03 | ND(0.001) | ug/L | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(0.01) | ND(0.005) | ND(0.05) | ND(0.01) | ND(0.005) | ND(0.01) | ND(0.01) | 0.14 | ND(0.001) | ug/L | | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| MW-3 | 7/27/94 | ND(0.01) | ND(0.005) | ND(0.02) | ND(0.01) | ND(0.005) | ND(0.01) | ND(0.01) | 0.17 | ND(0.001) | ug/L | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(0.01) | ND(0.005) | ND(0.02) | ND(0.01) | ND(0.005) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.001) | ug/L | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(0.01) | ND(0.005) | ND(0.05) | ND(0.01) | ND(0.005) | ND(0.01) | ND(0.01) | 0.04 | ND(0.001) | ug/L | | 7.3 | ND(2.0) | ND(2.0) | ND(2.0) |

Table 3: Analytical Results, 505 Cedar Street, Oakland, California

| Monitoring Well | Date | 8240 VOCs (ug/l) | | | | | | | | | | | | | | | |
|-----------------|----------|------------------|----------------------|---------------|--------------|---------------------------|------------|---------------|----------------------|--------------------|--------------------|--------------------|------------------------|--------------------------|---------------------|-------------------------|---------------------------|
| | | 2-Butanone (MEK) | Carbon Tetrachloride | Chlorobenzene | Chloroethane | 2-Chloroethyl Vinyl Ether | Chloroform | Chloromethane | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,3-Dichloropropene |
| MW-1 | 7/27/94 | 3.4 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | 43 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | 37 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | 26 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| MW-2 | 7/27/94 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| MW-3 | 7/27/94 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |

Table 3: Analytical Results, 505 Cedar Street, Oakland, California

| Monitoring Well | Date | 8240 VOCs (ug/l) | | | | | | | | | | | | | | |
|-----------------|----------|------------------|------------|--------------------|------------------------|---------|---------------------------|-------------------|---------|-----------------------|-----------------------|-----------------|------------------------|---------------|----------------|---------------|
| | | Ethylbenzene | 2-Hexanone | Methylene Chloride | Methyl Isobutyl Ketone | Styrene | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | Vinyl Acetate | Vinyl Chloride | Total Xylenes |
| MW-1 | 7/27/94 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| MW-2 | 7/27/94 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| MW-3 | 7/27/94 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 10/27/94 | ND(2.0) | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) |
| | 1/19/95 | 20 | ND(2.0) | ND(5.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | 7.7 |



LEGEND

USGS 1:24,000 SCALE
 OAKLAND WEST
 QUADRANGLE TOPOGRAPHIC MAP



FIGURE 1
SITE VICINITY MAP
 505 Cedar Street
 Oakland, California
ENVIRONMENTAL SOLUTIONS, INC.

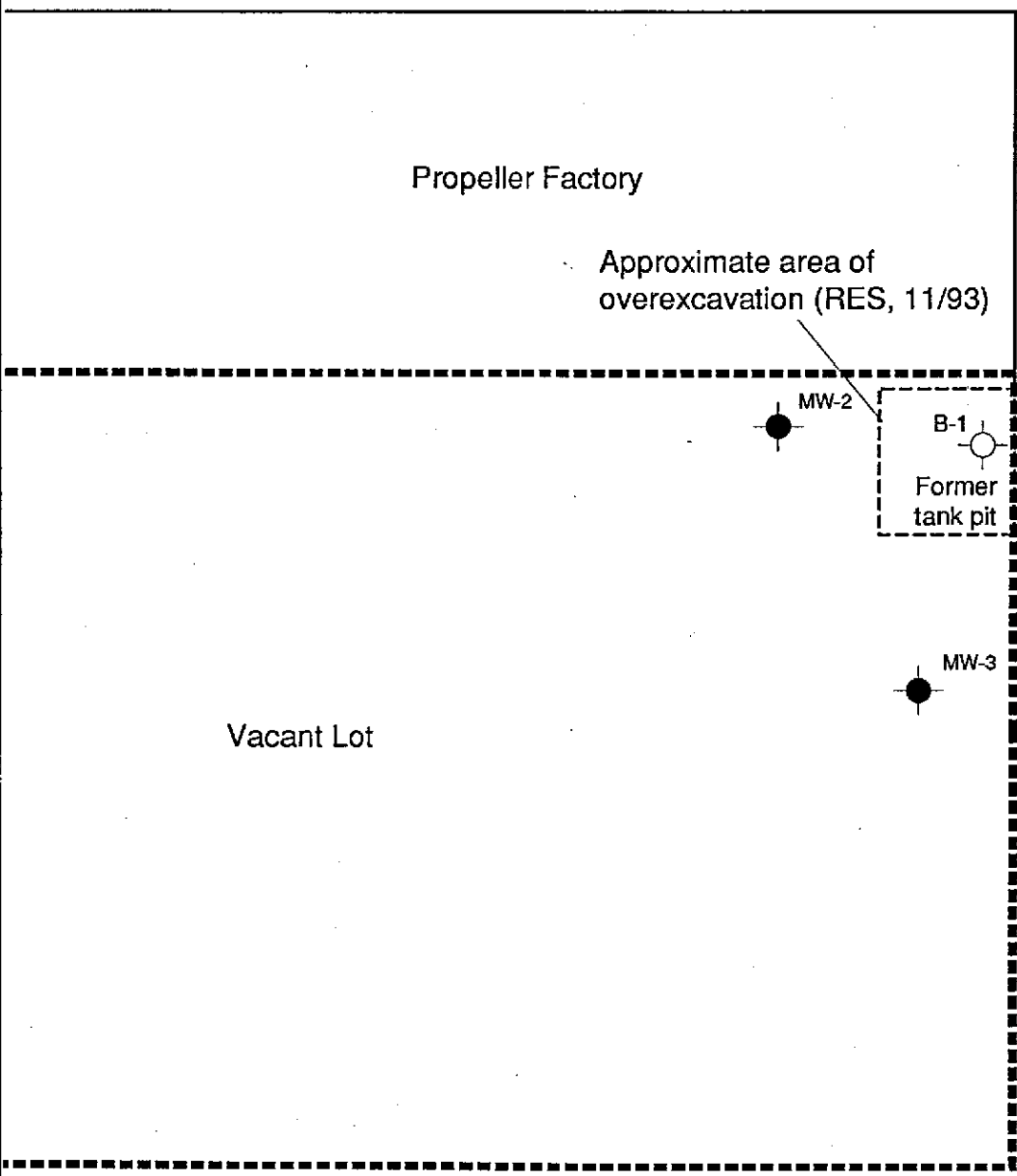
Seventh Street



Propeller Factory

Approximate area of overexcavation (RES, 11/93)

Cedar Street



Vacant Lot

Post Office

Fifth Street



Approximate Scale
1 inch = 20 feet

LEGEND




-  Site boundary
-  MW-3 Monitoring well location
-  B-1 Boring location

FIGURE 2
SITE LOCATION MAP
 505 Cedar Street
 Oakland, California
ENVIRONMENTAL SOLUTIONS, INC.

Seventh Street



NORTH

Propeller Factory

Cedar Street

4.50

MW-2

4.53

B-1

Former tank pit

MW-1

4.34

5.00

4.50

Vacant Lot

5.50

5.00

5.50

Ground water gradient 0.029

MW-3

5.63

Fifth Street

Post Office

Approximate Scale
1 inch = 20 feet

LEGEND



Site boundary

5.00

Inferred groundwater contour



Monitoring well location



Boring location

4.34 Groundwater elevation measured 1/19/1995

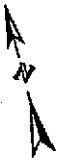
FIGURE 3

GROUND WATER CONTOUR MAP

505 Cedar Street
Oakland, California

ENVIRONMENTAL SOLUTIONS, INC.

Seventh Street



Propeller Factory

Cedar Street

Benzene = 16 ug/l
1,2-Dichloroethane = 26 ug/l

MW-2

B-1

Former tank pit

MW-1

Vacant Lot

MW-3

TPH-gas = 2.9 mg/l
benzene = 7.3 ug/l
ethylbenzene = 20 ug/l
total xylenes = 7.7 ug/l

Post Office

Fifth Street



Approximate Scale
1 inch = 20 feet

LEGEND



Site boundary



Boring location



MW-3

Monitoring well location

FIGURE 4

GROUND WATER ANALYTICAL DATA

505 Cedar Street
Oakland, California

Based on analysis of ground water samples collected 1/19/95

ENVIRONMENTAL SOLUTIONS, INC.

APPENDIX A

CHAIN-OF-CUSTODY DOCUMENTATION

AND

ANALYTICAL DATA SHEETS

94911qm2.013

Contract #53U495
Task Order #04-192211-05

ENVIRONMENTAL SOLUTIONS

CHROMALAB, INC.

Environmental Services (SDB)

RECEIVED

JAN 30 1995

January 25, 1995

ENV. SOLUTIONS - PETALUMA

Submission #: 9501166

Atten: Jed Douglas

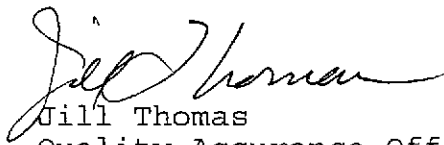
Project: CALTRANS 505 CEDAR

Project#: 94-911

REPORTING INFORMATION

Sample(s) were received cold and in good condition on **January 19, 1995**. They were refrigerated on receipt, and analyzed on the date shown on the attached report. ChromaLab followed EPA or equivalent methods for all analyses reported.

Hydrocarbons in the Kerosene range were observed in sample MW-3. Hydrocarbons in the Motor Oil range were also observed in sample MW-2.



Jill Thomas
Quality Assurance Officer



Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

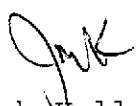
Project: CALTRANS 505 CEDAR
Received: January 19, 1995


Project#: 94-911

re: 3 samples for Gasoline analysis.

Matrix: WATER
Sampled: January 19, 1995 Run#: 5196 Analyzed: January 26, 1995
Method: EPA 5030/8015M

| Spl # | CLIENT | SMPL ID | GASOLINE (mg/L) | REPORTING LIMIT (mg/L) | BLANK RESULT (mg/L) | BLANK SPIKE RESULT (%) |
|-------|--------|---------|--------------------|------------------------------|---------------------------|------------------------------|
| 75517 | MW-3 | | 2.9 | 0.05 | N.D. | 99 |
| 75518 | MW-2 | | N.D. | 0.05 | N.D. | 99 |
| 75519 | MW-1 | | N.D. | 0.05 | N.D. | 99 |


Jack Kelly
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

January 23, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR


Project#: 94-911

Received: January 19, 1995

re: 3 samples for Oil and Grease analysis.

Matrix: WATER Extracted: January 23, 1995
Sampled: January 19, 1995 Run#: 5176 Analyzed: January 20, 1995
Method: STANDARD METHODS 5520 B&F

| <u>Spl #</u> | <u>CLIENT SMPL ID</u> | <u>OIL & GREASE</u> <u>(mg/L)</u> | <u>REPORTING</u> <u>LIMIT</u> <u>(mg/L)</u> | <u>BLANK</u> <u>RESULT</u> <u>(mg/L)</u> | <u>BLANK SPIKE</u> <u>RESULT</u> <u>(%)</u> |
|--------------|-----------------------|---|--|---|---|
| 75517 | MW-3 | N.D. | 1.0 | N.D. | 99 |
| 75518 | MW-2 | N.D. | 1.0 | N.D. | 99 |
| 75519 | MW-1 | N.D. | 1.0 | N.D. | 99 |


Carolyn House
Extractions Supervisor


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

January 25, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR

Project #: 94-911

Received: January 19, 1995

re: Three samples for Diesel analysis

Matrix: WATER

Extracted: January 20, 1995

Sampled: January 19, 1995

Analyzed: January 23, 1995

Method: EPA 3510/8015

| <u>Sample #</u> | <u>Client Sample ID</u> | <u>Diesel ($\mu\text{g/L}$)</u> |
|--------------------|-----------------------------|--|
| 75517 | MW-3 | N.D. |
| 75518 | MW-2 | N.D. |
| 75519 | MW-1 | N.D. |
| Blank | | N.D. |
| Spike Recovery | | 94% |
| Dup Spike Recovery | | 96% |
| Reporting Limit | | 50 |

ChromaLab, Inc.

Sirirat Chullakorn

Sirirat Chullakorn
Analytical Chemist

Ali Kharrazi
Ali Kharrazi
Organic Manager

cc

CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR
Received: January 19, 1995

Project#: 94-911

re: One sample for CAM 17 Metals analysis.

Sample ID: MW-3

Spl#: 75517

Matrix: WATER

Extracted: January 24, 1995

Sampled: January 19, 1995

Run#: 5185

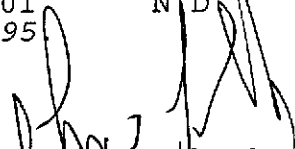
Analyzed: January 26, 1995

Method: EPA 3010A M/6010/7470

| ANALYTE | RESULT (mg/L) | REPORTING LIMIT (mg/L) | BLANK RESULT (mg/L) | BLANK SPIKE RESULT (%) |
|------------|------------------|------------------------------|---------------------------|------------------------------|
| ANTIMONY | N.D. | 0.02 | N.D. | 97 |
| ARSENIC | N.D. | 0.005 | N.D. | 104 |
| BARIUM | 0.075 | 0.005 | N.D. | 102 |
| BERYLLIUM | N.D. | 0.001 | N.D. | 101 |
| CADMIUM | N.D. | 0.001 | N.D. | 102 |
| CHROMIUM | N.D. | 0.05 | N.D. | 122 |
| COBALT | N.D. | 0.01 | N.D. | 102 |
| COPPER | N.D. | 0.005 | N.D. | 104 |
| LEAD | N.D. | 0.01 | N.D. | 102 |
| MOLYBDENUM | N.D. | 0.005 | N.D. | 102 |
| NICKEL | N.D. | 0.05 | N.D. | 113 |
| SELENIUM | N.D. | 0.01 | N.D. | 104 |
| SILVER | N.D. | 0.005 | N.D. | 101 |
| THALLIUM | N.D. | 0.01 | N.D. | 103 |
| VANADIUM | N.D. | 0.01 | N.D. | 104 |
| ZINC | 0.04 | 0.01 | N.D. | 103 |
| MERCURY | N.D. | 0.001 | N.D. | 90 |

Note: MERCURY WAS PREPED AND RUN ON 1/24/95


Doina Danet
Chemist


John S. Labash
Inorganic Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR

Project#: 94-911

Received: January 19, 1995

re: One sample for CAM 17 Metals analysis.

Sample ID: MW-2

Spl#: 75518

Matrix: WATER

Extracted: January 24, 1995

Sampled: January 19, 1995


Run#: 5185

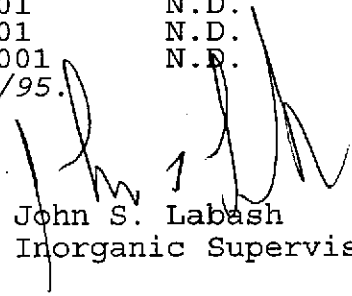
Analyzed: January 26, 1995

Method: EPA 3010A M/6010/7470

| ANALYTE | RESULT (mg/L) | REPORTING LIMIT (mg/L) | BLANK RESULT (mg/L) | BLANK SPIKE RESULT (%) |
|------------|------------------|------------------------------|---------------------------|------------------------------|
| ANTIMONY | N.D. | 0.02 | N.D. | 97 |
| ARSENIC | N.D. | 0.005 | N.D. | 104 |
| BARIUM | 0.081 | 0.005 | N.D. | 102 |
| BERYLLIUM | N.D. | 0.001 | N.D. | 101 |
| CADMIUM | 0.004 | 0.001 | N.D. | 102 |
| CHROMIUM | 0.05 | 0.05 | N.D. | 122 |
| COBALT | N.D. | 0.01 | N.D. | 102 |
| COPPER | 0.005 | 0.005 | N.D. | 104 |
| LEAD | N.D. | 0.01 | N.D. | 102 |
| MOLYBDENUM | N.D. | 0.005 | N.D. | 102 |
| NICKEL | N.D. | 0.05 | N.D. | 113 |
| SELENIUM | N.D. | 0.01 | N.D. | 104 |
| SILVER | N.D. | 0.005 | N.D. | 101 |
| THALLIUM | N.D. | 0.01 | N.D. | 103 |
| VANADIUM | N.D. | 0.01 | N.D. | 104 |
| ZINC | 0.14 | 0.01 | N.D. | 103 |
| MERCURY | N.D. | 0.001 | N.D. | 90 |

Note: MERCURY WAS PREPED AND RUN ON 1/24/95.


Doina Danet
Chemist


John S. Labash
Inorganic Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR
Received: January 19, 1995

Project#: 94-911

re: One sample for CAM 17 Metals analysis.

Sample ID: MW-1

Spl#: 75519

Matrix: WATER

Extracted: January 24, 1995

Sampled: January 19, 1995


Run#: 5185

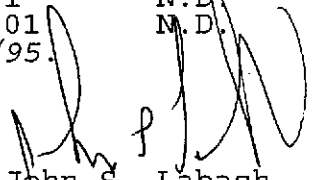
Analyzed: January 26, 1995

Method: EPA 3010A M/6010/7470

| ANALYTE | RESULT (mg/L) | REPORTING LIMIT (mg/L) | BLANK RESULT (mg/L) | BLANK SPIKE RESULT (%) |
|------------|-------------------|-------------------------------|----------------------------|------------------------------|
| ANTIMONY | N.D. | 0.02 | N.D. | 97 |
| ARSENIC | N.D. | 0.005 | N.D. | 104 |
| BARIUM | 0.18 | 0.005 | N.D. | 102 |
| BERYLLIUM | N.D. | 0.001 | N.D. | 101 |
| CADMIUM | N.D. | 0.001 | N.D. | 102 |
| CHROMIUM | N.D. | 0.05 | N.D. | 122 |
| COBALT | N.D. | 0.01 | N.D. | 102 |
| COPPER | N.D. | 0.005 | N.D. | 104 |
| LEAD | N.D. | 0.01 | N.D. | 102 |
| MOLYBDENUM | N.D. | 0.005 | N.D. | 102 |
| NICKEL | N.D. | 0.05 | N.D. | 113 |
| SELENIUM | N.D. | 0.01 | N.D. | 104 |
| SILVER | N.D. | 0.005 | N.D. | 101 |
| THALLIUM | N.D. | 0.01 | N.D. | 103 |
| VANADIUM | N.D. | 0.01 | N.D. | 104 |
| ZINC | 0.15 | 0.01 | N.D. | 103 |
| MERCURY | 0.001 | 0.001 | N.D. | 90 |

Note: MERCURY WAS PREPED AND RUN ON 1/24/95.


Doina Danet
Chemist


John S. Labash
Inorganic Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

January 23, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR

Project#: 94-911

Received: January 19, 1995

re: One sample for Volatile Organic Compounds analysis.

Sample ID: MW-1

Spl#: 75519

Matrix: WATER

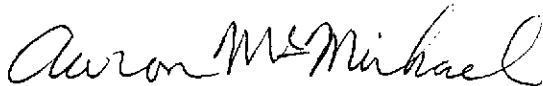
Sampled: January 19, 1995


Run#: 5180

Analyzed: January 20, 1995

Method: EPA 8240/8260

| ANALYTE | RESULT | REPORTING | BLANK | BLANK SPIKE |
|---------------------------|--------|-----------|--------|-------------|
| | (ug/L) | LIMIT | RESULT | RESULT |
| | (ug/L) | (ug/L) | (ug/L) | (%) |
| ACETONE | N.D. | 5.0 | N.D. | -- |
| BENZENE | 16 | 2.0 | N.D. | 119 |
| BROMODICHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| BROMOFORM | N.D. | 2.0 | N.D. | -- |
| BROMOMETHANE | N.D. | 2.0 | N.D. | -- |
| METHYL ETHYL KETONE | N.D. | 2.0 | N.D. | -- |
| CARBON TETRACHLORIDE | N.D. | 2.0 | N.D. | -- |
| CHLORO BENZENE | N.D. | 2.0 | N.D. | 109 |
| CHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 2-CHLOROETHYL VINYL ETHER | N.D. | 2.0 | N.D. | -- |
| CHLOROFORM | N.D. | 2.0 | N.D. | -- |
| CHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| DIBROMOCHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1-DICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,2-DICHLOROETHANE | 26 | 2.0 | N.D. | -- |
| 1,1-DICHLOROETHENE | N.D. | 2.0 | N.D. | 126 |
| CIS-1,2-DICHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| TRANS-1,2-DICHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| 1,2-DICHLOROPROPANE | N.D. | 2.0 | N.D. | -- |
| CIS-1,3-DICHLOROPROPENE | N.D. | 2.0 | N.D. | -- |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 2.0 | N.D. | -- |
| ETHYLBENZENE | N.D. | 2.0 | N.D. | -- |
| 2-HEXANONE | N.D. | 2.0 | N.D. | -- |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- |
| METHYL ISOBUTYL KETONE | N.D. | 2.0 | N.D. | -- |
| STYRENE | N.D. | 2.0 | N.D. | -- |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| TETRACHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| TOLUENE | N.D. | 2.0 | N.D. | 106 |
| 1,1,1-TRICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1,2-TRICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| TRICHLOROETHENE | N.D. | 2.0 | N.D. | 106 |
| TRICHLOROFLUOROMETHANE | N.D. | 2.0 | N.D. | -- |
| VINYL ACETATE | N.D. | 2.0 | N.D. | -- |
| VINYL CHLORIDE | N.D. | 2.0 | N.D. | -- |
| TOTAL XYLENES | N.D. | 2.0 | N.D. | -- |


Aaron McMichael
Chemist


Ali Khazrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

January 23, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR

Project#: 94-911

Received: January 19, 1995

re: One sample for Volatile Organic Compounds analysis.

Sample ID: MW-2

Spl#: 75518

Matrix: WATER

Sampled: January 19, 1995

Run#: 5180

Analyzed: January 20, 1995

Method: EPA 8240/8260

| ANALYTE | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE RESULT (%) |
|---------------------------|-------------------|-------------------------------|----------------------------|------------------------------|
| ACETONE | N.D. | 5.0 | N.D. | -- |
| BENZENE | N.D. | 2.0 | N.D. | 119 |
| BROMODICHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| BROMOFORM | N.D. | 2.0 | N.D. | -- |
| BROMOMETHANE | N.D. | 2.0 | N.D. | -- |
| METHYL ETHYL KETONE | N.D. | 2.0 | N.D. | -- |
| CARBON TETRACHLORIDE | N.D. | 2.0 | N.D. | -- |
| CHLOROBENZENE | N.D. | 2.0 | N.D. | 109 |
| CHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 2-CHLOROETHYLVINYL ETHER | N.D. | 2.0 | N.D. | -- |
| CHLOROFORM | N.D. | 2.0 | N.D. | -- |
| CHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| DIBROMOCHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1-DICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,2-DICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1-DICHLOROETHENE | N.D. | 2.0 | N.D. | 126 |
| CIS-1,2-DICHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| TRANS-1,2-DICHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| 1,2-DICHLOROPROPANE | N.D. | 2.0 | N.D. | -- |
| CIS-1,3-DICHLOROPROPENE | N.D. | 2.0 | N.D. | -- |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 2.0 | N.D. | -- |
| ETHYLBENZENE | N.D. | 2.0 | N.D. | -- |
| 2-HEXANONE | N.D. | 2.0 | N.D. | -- |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- |
| METHYL ISOBUTYL KETONE | N.D. | 2.0 | N.D. | -- |
| STYRENE | N.D. | 2.0 | N.D. | -- |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| TETRACHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| TOLUENE | N.D. | 2.0 | N.D. | 106 |
| 1,1,1-TRICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1,2-TRICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| TRICHLOROETHENE | N.D. | 2.0 | N.D. | 106 |
| TRICHLOROFLUOROMETHANE | N.D. | 2.0 | N.D. | -- |
| VINYL ACETATE | N.D. | 2.0 | N.D. | -- |
| VINYL CHLORIDE | N.D. | 2.0 | N.D. | -- |
| TOTAL XYLENES | N.D. | 2.0 | N.D. | -- |


Aaron McMichael
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

January 23, 1995

Submission #: 9501166

ENV. SOLUTIONS - PETALUMA

Atten: Jed Douglas

Project: CALTRANS 505 CEDAR

Project#: 94-911

Received: January 19, 1995

re: One sample for Volatile Organic Compounds analysis.

Sample ID: MW-3

Spl#: 75517

Matrix: WATER

Sampled: January 19, 1995

Run#: 5180

Analyzed: January 20, 1995

Method: EPA 8240/8260

| ANALYTE | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE RESULT (%) |
|---------------------------|-------------------|-------------------------------|----------------------------|------------------------------|
| ACETONE | N.D. | 5.0 | N.D. | -- |
| BENZENE | 7.3 | 2.0 | N.D. | 119 |
| BROMODICHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| BROMOFORM | N.D. | 2.0 | N.D. | -- |
| BROMOMETHANE | N.D. | 2.0 | N.D. | -- |
| METHYL ETHYL KETONE | N.D. | 2.0 | N.D. | -- |
| CARBON TETRACHLORIDE | N.D. | 2.0 | N.D. | -- |
| CHLORO BENZENE | N.D. | 2.0 | N.D. | 109 |
| CHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 2-CHLOROETHYL VINYL ETHER | N.D. | 2.0 | N.D. | -- |
| CHLOROFORM | N.D. | 2.0 | N.D. | -- |
| CHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| DIBROMOCHLOROMETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1-DICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,2-DICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1-DICHLOROETHENE | N.D. | 2.0 | N.D. | 126 |
| CIS-1,2-DICHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| TRANS-1,2-DICHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| 1,2-DICHLOROPROPANE | N.D. | 2.0 | N.D. | -- |
| CIS-1,3-DICHLOROPROPENE | N.D. | 2.0 | N.D. | -- |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 2.0 | N.D. | -- |
| ETHYLBENZENE | 20 | 2.0 | N.D. | -- |
| 2-HEXANONE | N.D. | 2.0 | N.D. | -- |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- |
| METHYL ISOBUTYL KETONE | N.D. | 2.0 | N.D. | -- |
| STYRENE | N.D. | 2.0 | N.D. | -- |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| TETRACHLOROETHENE | N.D. | 2.0 | N.D. | -- |
| TOLUENE | N.D. | 2.0 | N.D. | 106 |
| 1,1,1-TRICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| 1,1,2-TRICHLOROETHANE | N.D. | 2.0 | N.D. | -- |
| TRICHLOROETHENE | N.D. | 2.0 | N.D. | 106 |
| TRICHLOROFLUOROMETHANE | N.D. | 2.0 | N.D. | -- |
| VINYL ACETATE | N.D. | 2.0 | N.D. | -- |
| VINYL CHLORIDE | N.D. | 2.0 | N.D. | -- |
| TOTAL XYLENES | 7.7 | 2.0 | N.D. | -- |

Aaron McMichael

Aaron McMichael
Chemist

Ali Kharrazi

Ali Kharrazi
Organic Manager

166775517-75519

20165

CHAIN OF CUSTODY RECORD

Ship To: CHROMALAB
 Attn: _____
 Page 1 of 1
 Project Name CALTRANS 505 CEDAR
 Project No. 9A-911
 Site Location 505 CEDAR OAKLAND
 Date 19 JAN 1995

Analysis
 SURM #: 9501166
 CLIENT: ENVISOL-PET
 DUE: 01/26/95
 REF #: 20165

| Sample ID | Depth | Date | Time | Sample Type | | | Comp | Grab | Sample Containers | | | | REMARKS |
|-----------|-------|-------------|------|-------------|-------|-------|------|------|-------------------|-----|------|-------|---|
| | | | | Water | Solid | Other | | | Vol. | No. | Type | Pres. | |
| MW-3 | | 19 JAN 1995 | 1320 | X | | | | | ✓ | ✓ | ✓ | ✓ | * PLEASE FILTER & PRESERVE METALS SAMPLERS. |
| MW-2 | | ↓ | 1340 | X | | | | | ✓ | ✓ | ✓ | ✓ | |
| MW-1 | | ↓ | 1400 | X | | | | | ✓ | ✓ | ✓ | ✓ | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

Total Number of Samples Shipped: 21 Sampler's Signature: James W. Coleman

| Signature | Company | Date | Time |
|-------------------------|------------------------------|-------------|------|
| <u>James W. Coleman</u> | ENVIRONMENTAL SOLUTIONS INC. | 19 JAN 1995 | 1530 |
| <u>[Signature]</u> | <u>Chromalab</u> | 19 JAN 1995 | 1530 |
| | | | |
| | | | |
| | | | |
| | | | |

Special Instructions / Shipment / Handling / Storage Requirements:

ENVIRONMENTAL SOLUTIONS, INC.
 21 Technology Drive
 Irvine, CA 92718
 (714) 727-9336 FAX (714) 727-7399

ENVIRONMENTAL SOLUTIONS, INC.
 2815 Mitchell Drive, Suite 103
 Walnut Creek, CA 94598
 (510) 935-3294 FAX (510) 935-5412

Please send signed copy with results to the ATTENTION OF: LET DOUGLAS
 at the address ~~indicated~~ indicated by an

Received cold in good condition 1/19/95 BR

ENVIRONMENTAL SOLUTIONS

DISTRIBUTION

**JANUARY 1995 QUARTERLY
MONITORING AND SAMPLING REPORT
505 CEDAR STREET
OAKLAND, CALIFORNIA**

Caltrans Contract Number 53U495
Task Order Number 04-192211-05

Environmental Solutions, Inc. Project No. 94-911

March 8, 1995

California Department of Transportation (CALTRANS) 5 Copies
Environmental Engineering Branch
111 Grand Avenue, 14th Floor
Oakland, California 94623

Attention: Mr. Chris Wilson

Environmental Solutions, Inc. 4 Copies
1201 North McDowell Boulevard
Petaluma, CA 94954

94911qm2.013

Contract #53U495
Task Order #04-192211-05