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BURLINGTON
ENVIRONMENTAL

# QUARTERLY GROUNDWATER MONITORING REPORT
**First Quarter 1995**

**JOE SIO CHEVROLET**
**914-916 San Pablo Avenue**
**Albany, California**
**STID-3808**

**February 28, 1995**

**Prepared for:**

**MS. FLORENCE ANN CONNORS**
**Executor for the Estate of Josephine A. Dibble**
1658 Del Dayo Drive
Carmichael, California 95608

**Prepared by:**

**BURLINGTON ENVIRONMENTAL INC.**
*A Philip Environmental Company*
5901 Christie Avenue, Suite 501
Emeryville, California 94608

SIO101/12104

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February 28, 1995
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Ms. Florence Ann Connors
Executor for the Estate of Josephine A. Dibble
1658 Del Dayo Drive
Carmichael, California 95608

**Subject:** **QUARTERLY GROUNDWATER MONITORING REPORT**
**First Quarter 1995**
Joe Sio Chevrolet
914-916 San Pablo Avenue, Albany, California

Dear Ms. Connors:

Burlington Environmental Inc. (Burlington) is pleased to submit the following quarterly monitoring report for Joe Sio Chevrolet, located at 914-916 San Pablo Avenue in Albany, California (see Figure 1, Site Location Map). The groundwater monitoring and sampling was conducted by Burlington in January 1995.

## BACKGROUND

Two 550-gallon underground storage tanks (USTs) were removed from the site on March 20, 1989 by Petroleum Engineering, Inc. One UST contained gasoline and was located under the sidewalk between the former building and San Pablo Avenue. The other UST contained waste oil and was located adjacent to the southwest corner of the former building (see Figure 2, Site Plan). Soil samples collected from beneath the former gasoline UST contained concentrations of total petroleum hydrocarbons (TPH) ranging between 270 and 1,300 milligrams per kilogram (mg/kg). As a result of the TPH in the soil samples from beneath the former gasoline UST, Alameda County Department of Environmental Health (ACDEH) requested that additional excavation be conducted in the vicinity of the former gasoline UST, and groundwater monitoring wells be installed and sampled to determine groundwater quality, flow direction, and gradient.

On July 24 and 25, 1991, Aqua Terra Technologies (ATT) of Walnut Creek, California, installed three groundwater monitoring wells (MW-1, MW-2, and MW-3) at the site (see Figure 2, Site Plan). The three groundwater monitoring wells were developed on July 31, 1991 and sampled on August 7, 1991. Elevated concentrations of TPH and benzene, toluene, ethylbenzene and total xylenes (BTEX) were found in the groundwater sample collected from well MW-1 (see Table 1). At the time the wells were sampled,



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ATT determined that the groundwater flow direction was to the west-northwest with an approximate hydraulic gradient of 0.01 feet/foot.

In a letter dated November 9, 1993, Ms. Juliet Shin (ACDEH) directed that quarterly groundwater monitoring be resumed at the site. In April 1994, Burlington received authority to proceed with quarterly groundwater monitoring at the site.

## MONITORING ACTIVITIES

The first quarter 1995 monitoring event was conducted on January 17, 1995. In each well, the depth to groundwater and the presence or absence of phase-separated hydrocarbons (PSH) were determined. Groundwater samples were collected and analyzed according to U. S. Environmental Protection Agency (EPA) guidelines to determine the concentrations of TPH as gasoline (TPHg), BTEX, and total lead. In addition, groundwater from monitoring well MW-3 was analyzed for cadmium, chromium, zinc, and nickel. The groundwater sample from well MW-3 to be analyzed for the five metals was filtered during sampling with a 0.45 μm filter.

The ground water sample from well MW-2 was also analyzed for halogenated volatile organics in response to matrix interference observed during the 3rd and 4th quarter 1994 monitoring events, per the request of Ms. Juliet Shin (ACDEH) in her November 2, 1994 correspondence to you.

The monitoring and sampling procedures are presented in Appendix A. Field data sheets are presented in Appendix B. Western Environmental Science & Technology, located in Davis, California, performed the analysis. The analytical results and detection limits are presented in Table 1 (Groundwater Analytical Data)

## RESULTS

The groundwater elevation in the monitoring wells beneath the site on January 17, 1995 ranged from 32.64 to 34.00 feet above mean sea level (see Table 2, Groundwater Elevation Data). A contour map of these data is presented in Figure 3 (Groundwater Elevation Contours). The approximate groundwater flow direction is to the east with an approximate hydraulic gradient of 0.007 feet/foot. The reversal in groundwater flow direction from previous monitoring events could be a result of the intensive rain that fell at the site during the sampling period. This flow direction reversal is believed to be temporary.

The results of the chemical analyses are presented in Table 1. No PSH were detected in any of the groundwater monitoring wells. No detectable concentrations of TPHg or BTEX were found in the groundwater samples collected from well MW-2 or MW-3. However, elevated concentrations of petroleum hydrocarbons were found in the



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groundwater sample collected from well MW-1, including 600 micrograms per liter (µg/l) of TPHg and 250 µg/l of benzene. The groundwater sample collected from well MW-3 contained trace levels of chromium and zinc (see Table 1). No detectable concentrations of lead were found.

According to Table 1, lead was detected in wells 1 & 2.

Elevated concentrations of tetrachloroethene (PCE) were found in the groundwater sample from well MW-2, at 100 µg/l. In addition, trace concentrations of chloromethane, carbon tetrachloride, trichloroethene, and cis-1,2-dichloroethene were found in the sample. Although the PCE level exceeds the California maximum contaminant level (MCL) of 5 µg/l, there is no known source of PCE onsite, and an offsite source for the halogenated hydrocarbons is likely.

Chain-of-custody documentation and certified analytical results are presented in Appendix C. Purge and rinsate water was stored on the site in 55-gallon drums. The drums were labeled by the field sampling technician. Purge and rinsate water disposal will be arranged in the future.

## CONCLUSIONS

One year of quarterly groundwater monitoring has been completed at this time. The recurrence of TPHg and BTEX in the groundwater samples collected from well MW-1 suggests that the groundwater below the former gasoline UST continues to be impacted. Burlington recommends that a Corrective Action Feasibility Study be prepared at this time to evaluate the most feasible corrective action for the site. Burlington further recommends that the quarterly groundwater monitoring be temporarily discontinued while the Feasibility Study is being prepared and reviewed.

Burlington appreciates the opportunity to provide you with quality consulting and environmental services. Please feel free to contact me if I can provide further assistance.

Sincerely,

**BURLINGTON ENVIRONMENTAL INC.**

David C. Tight, R.G. No. 4603
Investigation/Remediation Manager

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Attachments:

Figure 1 - Site Location Map
Figure 2 - Site Plan
Figure 3 - Groundwater Elevation Contours

Table 1 - Groundwater Analytical Data
Table 1A- Halogenated/Volatile Organics Analytical Data
Table 2 - Groundwater Elevation Data

Appendix A - Groundwater Sampling and Analysis Procedures
Appendix B - Water Sample Field Data Sheets
Appendix C - Chain-of-Custody Records and Certified Analytical Reports

cc: Ms. Juliet Shin (ACDEH)



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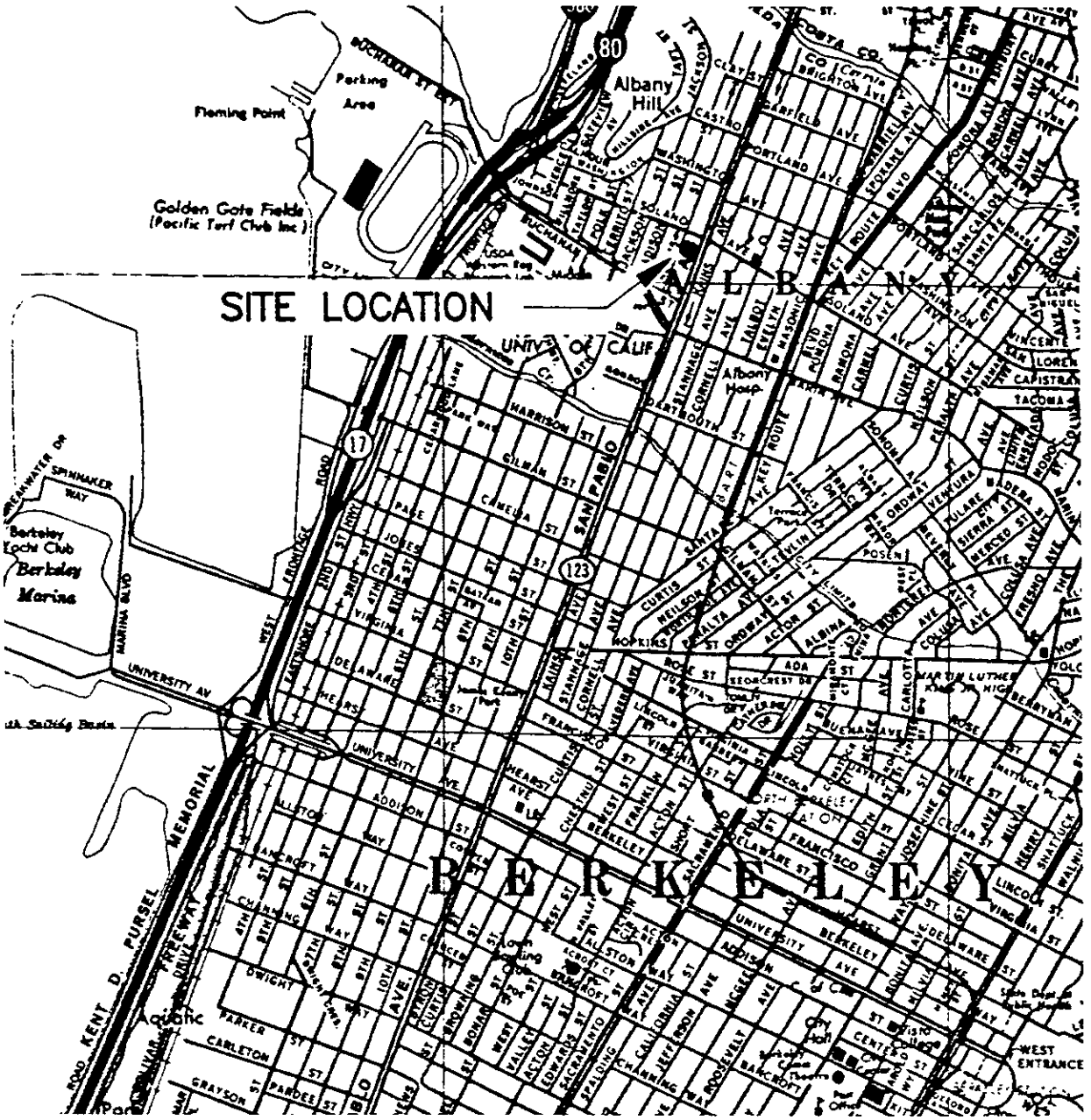
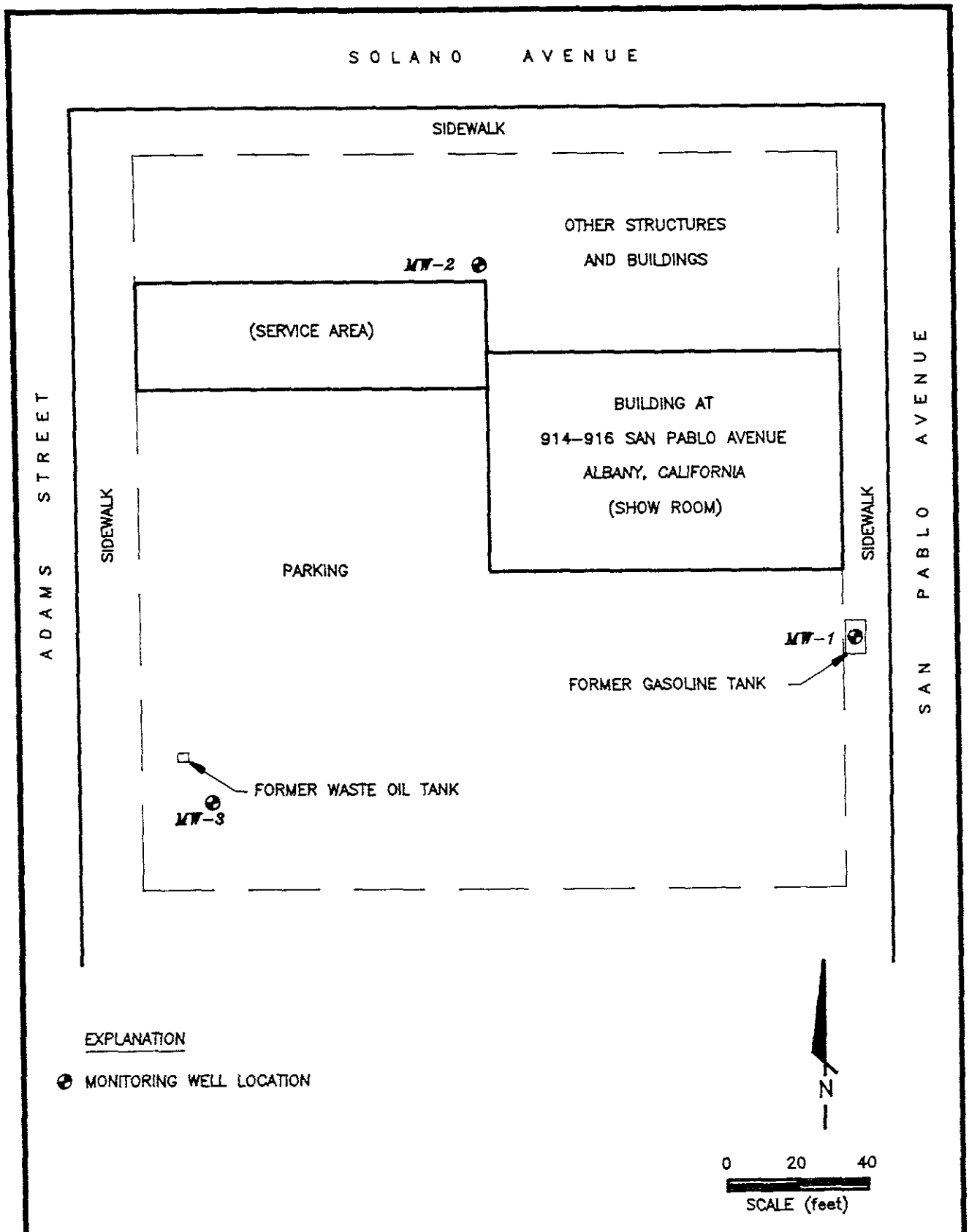
**FIGURES 1 - 3**




| | | |
|---|---|---|
| BURLINGTON ENVIRONMENTAL INC. | SITE LOCATION MAP<br>Joe Sio Chevrolet<br>914 – 916 San Pablo Avenue<br>Albany, California | Figure 1 |
| | | Project No. 12104 |
| | | Drawn By SBW / Date 5/27/94 |
| | Reviewed By : DO / Date : 2/28/95 | Drawing No. ASI00101 |

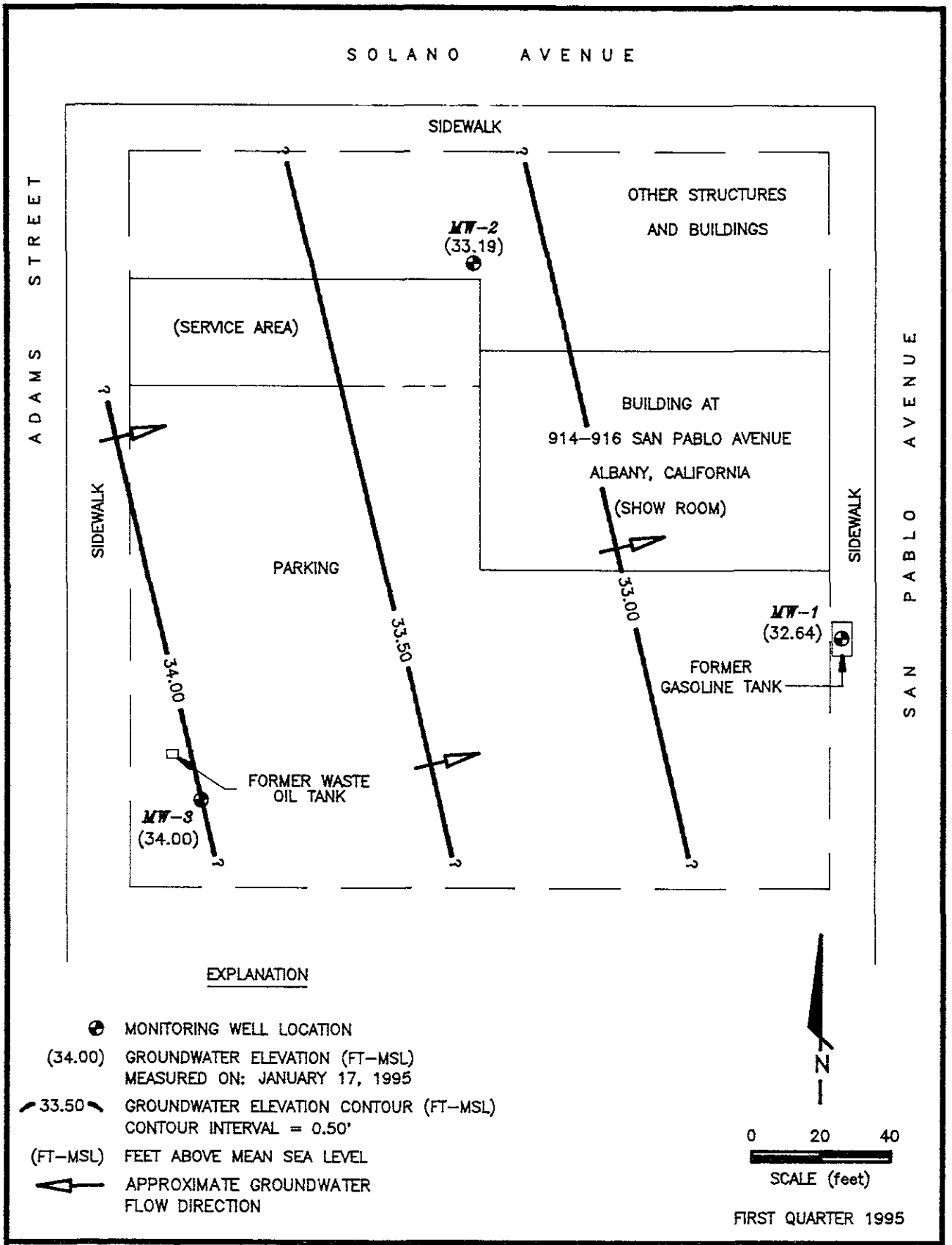



BURLINGTON ENVIRONMENTAL INC.

# SITE PLAN
## Joe Sio Chevrolet
## 914 – 916 San Pablo Avenue
## Albany, California

Figure 2

| | |
|---|---|
| Project No. | 12104 |
| Drawn By SBW | Date 11/2/94 |
| Reviewed By : | Date : 2/28/95 |
| Drawing No. | ASI00102 |




BURLINGTON ENVIRONMENTAL INC.

# GROUNDWATER ELEVATION CONTOURS
## Joe Sio Chevrolet
## 914 – 916 San Pablo Avenue
## Albany, California

Figure 3

Project No. 12104

Drawn By SBW | Date 2/21/95

Reviewed By : [signature] | Date : 2/28/95

Drawing No. ASI00106

**TABLES 1 - 2**

**TABLE 1**
**GROUNDWATER ANALYTICAL DATA**

Joe Sio Chevrolet
914-916 San Pablo Avenue, Albany, California

50 ppb drinking water std.

| Monitoring Well No. | Date Sampled | Sample No. | TPH Gasoline (ug/l) | Benzene (ug/l) | Toluene (ug/l) | Ethyl-benzene (ug/l) | Total Xylenes (ug/l) | Total Oil and Grease (mg/l) | Cadmium (mg/l) | Chromium (mg/l) | Lead (mg/l) | Nickel (mg/l) | Zinc (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EPA Analytical Method: | | 8015m | 602 | 602 | 602 | 602 | 9070 | AA | AA | AA | AA | AA |
| **Groundwater Analyses:** | | | | | | | | | | | | | |
| MW-1 | 8/7/91 | MW-1 | 110 | 16 | 2 | 0.7 | 15 | NA | NA | NA | NA | NA | NA |
| | 4/15/94 | MW01-041594 | 2,500 | 880 | 22 | 79 | 47 | NA | NA | NA | 0.0093 | NA | NA |
| | 7/14/94 | MW01-071494 | 470 | 110 | 22 | 21 | 87 | NA | NA | NA | 0.0059 | NA | NA |
| | 10/14/94 | MW01-101494 | 380 | 86 | 17 | 24 | 77 | NA | NA | NA | 0.008 | NA | NA |
| | 1/17/95 | MW01-011795 | 600 | 250 | 11 | 5.3 | 56 | NA | NA | NA | 0.0096 | NA | NA |
| MW-2 | 8/7/91 | MW-2 | NA(<50) | ND(<0.50) | ND(<0.50) | ND(<0.50) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| | 4/15/94 | MW02-041494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | NA | NA | 0.022 | NA | NA |
| | 7/14/94 | MW02-071494 | ND(<50) * | ND(<0.30) * | 0.73 * | ND(<0.30) * | 0.71 * | NA | NA | NA | 0.023 | NA | NA |
| | 10/14/94 | MW02-101494 | ND(<50) * | ND(<0.30) * | ND(<0.30) * | ND(<0.30) * | ND(<0.50) * | NA | NA | NA | 0.021 | NA | NA |
| | 1/17/95 | MW02-011795 | ND(<50) * | ND(<0 30) * | ND(<0.30) * | ND(<0.30) * | ND(<0.50) * | NA | NA | NA | 0.031 | NA | NA |
| MW-3 | 8/7/91 | MW-3 | NA(<50) | ND(<0 50) | ND(<0.50) | ND(<0.50) | ND(<0.50) | ND(<5) | NA | NA | NA | NA | NA |
| | 4/15/94 | MW03-041594 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | 0.012 | 0.25 | 0.22 | 0.34 | 0.49 |
| | 4/15/94 d | DW01-041494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| | 7/14/94 | MW03-071494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | 0.50 | NA | 0.017 | 0.55 | 0.22 | 0.73 | 0.84 |
| | 7/14/94 d | DW01-071494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | 0.53 | NA | NA | NA | NA | NA | NA |
| | 10/14/94 | MW03-101494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | 0.019 | 0.64 | 0.14 | 0.86 | 0.90 b |
| | 10/14/94 d | DW01-101494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0 30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| | 1/17/95 | MW03-011795 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | ND(<0.004) | 0.0088 | ND(<0.003) | ND(<0.015) | 0.022 |
| | 1/17/95 d | DW03-011795 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0 30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| **Rinsate Analyses:** | | | | | | | | | | | | | |
| | 4/15/94 | RS01-041594 | ND(<50) | ND(<0.30) | ND(<0 30) | ND(<0.30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| | 7/14/94 | RS01-071494 | ND(<50) | ND(<0.30) | 0.33 | ND(<0.30) | 0.65 | NA | NA | NA | NA | NA | NA |
| | 10/14/94 | RS01-101494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| | 1/17/95 | RS01-011795 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| **Trip Blank Analyses:** | | | | | | | | | | | | | |
| | 4/15/94 | TB01-041594 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| | 7/14/94 | TB01-071494 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0 50) | NA | NA | NA | NA | NA | NA |
| | 10/14/94 | TB01-101494 | ND(<50) | ND(<0 30) | ND(<0.30) | ND(<0.30) | ND(<0.50) | NA | NA | NA | NA | NA | NA |
| | 1/17/95 | TB01-011795 | ND(<50) | ND(<0.30) | ND(<0.30) | ND(<0.30) | ND(<0 50) | NA | NA | NA | NA | NA | NA |
| DRINKING WATER STANDARDS: California Maximum Contaminant Levels: | | | - | 1 | - | 680 | 1750 | - | 0.01 | 0.05 | 0.05 | - | 5 |

Results above detection limit are bolded for emphasis.

| | |
|---|---|
| * | An external standard quantitation was used on this sample due to matrix interference |
| b | Analyte found in method blank |
| d | Duplicate sample |
| mg/l | Milligrams per liter (parts per million) |
| NA | Not analyzed |
| ND | Concentration below detection limit presented in parentheses |
| ug/l | Micrograms per liter (parts per billion) |

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**TABLE 1A**
**HALOGENATED/VOLATILE ORGANICS ANALYTICAL DATA**

Joe Slo Chevrolet
914-916 San Pablo Avenue, Albany, California

| Monitoring Well No. | Date Sampled | Sample No. | Chloro-methane | Carbon Tetra-chloride | Trichloro-ethene | *cis*-1,2-Dichloro ethene | Tetrachloro-ethene |
|---|---|---|---|---|---|---|---|
| | EPA Analytical Method: | | 601 | 601 | 601 | 601 | 601 |
| MW-2 | 1/17/95 | MW02-011795 | 0.94 | 0.98 | 0.58 | 0.51 | 100 |
| DRINKING WATER STANDARDS: *California* Maximum Contaminant Levels: | | | - | 0.5 | 5 | 6 | 5 |

Results above detection limit are bolded for emphasis.
All results presented in micrograms per liter (ug/l)
601 analytes not listed are all below method detection limits

## TABLE 2
## GROUNDWATER ELEVATION DATA

Joe Sio Chevrolet
914-916 San Pablo Avenue, Albany, California

| Monitoring Well No. | Date Measured | Total Depth (ft-BTOC) | TOC Elevation (ft-MSL) | Depth to Water (ft-BTOC) | Water Elevation (ft-MSL) |
|---|---|---|---|---|---|
| MW-1 | 8/7/91 | NM | 42.61 | 10.49 | 32.12 |
| | 8/12/91 | NM | 42.61 | 10.37 | 32.24 |
| | 4/15/94 | 29.80 | 42.61 | 10.60 | 32.01 |
| | 7/14/94 | 29.70 | 42.61 | 10.55 | 32.06 |
| | 10/14/94 | 29.75 | 42.61 | 10.88 | 31.73 |
| | 1/17/95 | 29.75 | 42.61 | 9.97 | 32.64 |
| MW-2 | 8/7/91 | NM | 42.73 | 11.64 | 31.09 |
| | 8/12/91 | NM | 42.73 | 11.69 | 31.04 |
| | 4/15/94 | 26.88 | 42.73 | 10.16 | 32.57 |
| | 7/14/94 | 26.85 | 42.73 | 10.91 | 31.82 |
| | 10/14/94 | 26.88 | 42.73 | 12.10 | 30.63 |
| | 1/17/95 | 26.87 | 42.73 | 9.54 | 33.19 |
| MW-3 | 8/7/91 | NM | 39.44 | 8.94 | 30.50 |
| | 8/12/91 | NM | 39.44 | 8.94 | 30.50 |
| | 4/15/94 | 25.58 | 39.44 | 7.68 | 31.76 |
| | 7/14/94 | 25.62 | 39.44 | 8.40 | 31.04 |
| | 10/14/94 | 25.61 | 39.44 | 9.31 | 30.13 |
| | 1/17/95 | 25.79 | 39.44 | 5.44 | 34.00 |

Water levels measured on 8/7/91 and 8/12/91 by Aqua Terra Technologies (ATT) of Walnut Creek, California.

TOC elevations obtained from survey data provided in the ATT Groundwater Monitoring Report dated 11/11/91.

| | |
|---|---|
| ft-BTOC | Feet below top of casing |
| ft-MSL | Feet above mean sea level |
| NM | Not measured |
| TOC | Top of casing |

# APPENDIX A

## Groundwater Sampling and Analysis Procedures

# APPENDIX A

## Groundwater Sampling and Analysis Procedures

## INTRODUCTION

The sampling and analysis procedures for water-quality monitoring programs are contained in this Appendix. These procedures ensure that consistent and reproducible sampling methods are used, proper analytical methods are applied, analytical results are accurate, precise, and complete, and the overall objectives of the monitoring program are achieved.

## SAMPLE COLLECTION

Sample collection procedures include equipment cleaning, water-level and total well-depth measurements, and well purging and sampling.

### Equipment Cleaning

Sample bottles, caps, and septa were precleaned and provided by a DHS-certified laboratory. All sampling containers were used only once and discarded after analysis was complete.

Before starting the sampling event, all equipment to be placed in the well or come in contact with groundwater was disassembled and cleaned thoroughly with detergent water, then steam cleaned with tap water, and rinsed with distilled water. Any parts that may absorb contaminants, such as plastic pump valves or bladders, were cleaned as described above or replaced.

During the sampling event all equipment used in the well was washed with detergent, steam-cleaned, and rinsed with distilled water before purging or sampling the next well. The rinsate water was contained for temporary storage in 55-gallon drums and disposal

will be arranged by the client. The 55-gallon drums were stored onsite and labeled by the field technician.

**Quality Assurance Samples**

A trip blank was analyzed to insure contamination did not result from travel exposure.

## WATER-LEVEL, FLOATING-HYDROCARBON, AND TOTAL WELL-DEPTH MEASUREMENTS

Before purging and sampling, the depth to water, floating hydrocarbon thickness, and the well total depth were measured using an oil water interface probe and an electric sounder. The electric sounder, manufactured by Slope-Indicator, Inc., is a transistorized instrument that uses a reel-mounted, two conductor, coaxial cable that connects the control panel to the sensor. Cable markings are stamped at 1-foot intervals. An engineers rule was used to measure the depths to the closest 0.01 foot. The water level was measured by lowering the sensor into the monitoring well. A low current circuit is completed when the sensor contacts the water, which serves as a conductor. The current is amplified and fed across an indicator light and audible buzzer, signaling when water has been contacted. A sensitivity control compensates for very saline or conductive water. The oil water interface probe signals with a solid sound when it contacts phase-separated hydrocarbons. When the probe detects water, the sound changes to a beeping sound.

No phase-separated hydrocarbons were detected in any of the monitoring wells. When PSH is detected at greater than 1/32-inch in thickness, a sample is not collected.

All liquid measurements were recorded to the nearest 0.01 foot in the field logbook. The groundwater elevation at each monitoring well was calculated by subtracting the measured depth to water from the surveyed well-casing elevation. Well total depth was then measured by lowering the sensor to the bottom of the well. Well total depth, used to calculate purge volumes and to determine whether the well screen is partially obstructed by silt, was recorded to the nearest 0.01 foot in the field log book.

## WELL PURGING

Before sampling, standing water in the casing was purged from the monitoring wells using a PVC hand bailer. Samples were collected from the monitoring wells after a minimum of four casing volumes had been evacuated or the pH, electrical conductivity, and temperature had stabilized. In the case that the monitoring well was purged until dry, the well was allowed to recover to within 80% of its static water level and sampled.

The pH, electrical conductivity, and temperature meter were calibrated each day before beginning field activities. After every well volume of groundwater removed from the monitoring well, field measurements were taken. The data is presented on the water sample field data sheets. The calibration was checked once each day to verify meter performance. All field meter calibrations were recorded in the field log book.

Groundwater generated from well-purging operations were contained for temporary storage in 55-gallon drums. All drums were labeled and stored onsite. The sampler recorded on the drum label for each drum generated:

- drum content (i.e., groundwater)
- source (i.e., well identification code)
- date generated
- client contact
- project number
- name of sampler.

The purge water will be disposed of by the client.

## WELL SAMPLING

A Teflon bailer was used for well sampling. Glass bottles of at least 40 milliliters volume and fitted with Teflon-lined septa were used in sampling for volatile organics. These bottles were filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum is placed over the meniscus to eliminate air. After capping, the bottle was inverted and tapped to verify that it did not contain air bubbles. The sample containers for other parameters were filled, and capped.

## SAMPLE HANDLING AND DOCUMENTATION

The following section specifies the procedures and documentation used during sample handling.

### Sample Handling

All sample containers were labeled immediately following sample collection. Samples were kept cool with ice cubes until received by the laboratory. At the time of sampling, each sample was logged on a chain-of-custody record which accompanied the sample to the Western Environmental, Science, and Technology.

### Sample Documentation

The following procedures were used during sampling and analysis to provide chain-of-custody control during sample handling from collection through storage. Sample documentation included:

- field log books to document sampling activities in the field
- labels to identify individual samples; and

- chain-of-custody record sheets for documenting possession and transfer of samples.

Field Log Book

In the field, the sampler recorded on the Water Sample Field Data Sheet for each sample collected:

- project number
- client name
- location
- name of sampler
- date and time
- pertinent well data (e.g., casing diameter, depth to water, well depth
- calculated and actual purge volumes
- purging equipment used
- sampling equipment used
- appearance of each sample (e.g., color, turbidity, sediment)
- results of field analyses (i.e., temperature, pH, electrical conductivity)
- general comments

The field logbooks were signed by the sampler.

Labels

Sample labels contained:

- project number
- sample number (i.e., well designation)
- sampler's initials
- date and time of collection
- type of preservative used (if any)

Sampling and Analysis Chain-of-Custody Record

The Sampling and Analysis Chain-of-Custody record, initiated at the time of sampling, contains, but is not limited to, the well number, sample type, analytical request, date of sampling, and the name of the sampler. The record sheet was signed, timed, and dated by the sampler when transferring the samples. The number of custodians in the chain of possessions were kept to a minimum. A copy of the Sampling and Analysis Chain-of-Custody record is included in Appendix C.

# APPENDIX B

## Water Sample Field Data Sheets

FIELD REPORT
WATER LEVEL / FLOATING PRODUCT SURVEY

PROJECT NO.: 12104 LOCATION: 914 SAN PABLO AVE, ALBANY SAMPLER: DLAMB

STATION NO.: JOE SIO CHEVROLET DATE: 1-17-95 TIME AND DATE OF SYSTEM START-UP: N/A

| WELL ID | TOTAL DEPTH (Feet) | WELL DIAMETER (in) | DEPTH TO WATER (Feet) | DEPTH TO FLOATING PRODUCT (Feet) | FLOATING PRODUCT THICKNESS (Feet) | TIME | COMMENTS |
|---|---|---|---|---|---|---|---|
| MW-1 | 29.75 | 2 | 9.97 | - | - | 0925 | |
| MW-2 | 26.87 | 2 | 9.54 | - | - | 0909 | |
| MW-3 | 25.79 | 2 | 5.44 | - | - | 0902 | |
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# WATER DATA SHEET

PROJECT NO.: 12104 SAMPLE ID.: MW01-011795

LOCATION: 914 SAN PABLO AVE., ALBANY DATE: 1-17-95

STATION NO.: 518-101 WELL/SAMPLE

SAMPLER: D. LAMB POINT DESIGNATION: MW-1

[X] SAMPLING [ ] DEVELOPING [ ] BAILING FLOATING PRODUCT

Casing Diameter:
2 inch X
3 inch ____
4 inch ____
6 inch ____
other ____

Casing Elev. (ft.): ____

TD (Actual) (ft.): 30

Screened Int. (ft.): 10-30

Initial DTW (ft.): 9.97 @ 0925

Initial TD (ft.): 29.75

Water Column Height (ft.): 19.78

80 % Recovery (ft.): 13.93

Calc. Casing Vol. (gal.): 3.36
(2" = .17) (3" = .38) (4" = .66) (6" = 1.5)

Calc. Purge Vol. (gal.): 13.45

Final DTW (ft.): 13.84 @ 0948

Final TD (ft.): 29.76

Product Bailed (gal.): Ø

## FIELD MEASUREMENTS

| TIME | VOLUME (gal.) | pH (units) | TEMP. (degrees F) | E.C. (umhos/cm) | COLOR | DTW (if dry) |
|---|---|---|---|---|---|---|
| 0933 | 3.5 | 6.92 | 60.9 | 6.41 x $10^2$ | GRN. / BRN | |
| 0938 | 7.0 | 6.57 | 61.3 | 6.10 x $10^2$ | YELLOW / BRN. | |
| 0942 | 10.5 | 6.48 | 62.4 | 6.23 x $10^2$ | YELLOW / BRN. | |
| 0947 | 13.5 | 6.45 | 62.9 | 6.26 x $10^2$ | YELLOW / BRN | |
| | | | | | | |
| | | | | | | |

Odor? SLIGHT

Actual Purge Vol. (gal.): 13.5

PURGE METHOD:
___ Bailer (Teflon)
X Bailer (PVC)
___ Well Wizard
___ Dedicated Bailer
___ Other ____

SAMPLE METHOD:
X Bailer (Teflon)
___ Bailer (PVC)
___ Dedicated Bailer
___ Other ____

REMARKS: MW01-011795 SAMPLED @ 1020 ON 1-17-95.

WEATHER: SUNNY, CALM, ≈ 50°

# WATER DATA SHEET

PROJECT NO.: 12104

LOCATION: 914 SAN PABLO AVE., ALBANY

STATION NO.: SJ0-101

SAMPLER: D. LAMB

SAMPLE ID.: MW02-011795

DATE: 1-17-95

WELL/SAMPLE POINT DESIGNATION: MW-2

[X] SAMPLING [ ] DEVELOPING [ ] BAILING FLOATING PRODUCT

Casing Diameter:
2 inch X
3 inch ___
4 inch ___
6 inch ___
other ___

Casing Elev. (ft.): ___

TD (Actual) (ft.): 28

Screened Int. (ft.): 8-28

Initial DTW (ft.): 9.54 @ 0909

Initial TD (ft.): 26.87

Water Column Height (ft.): 17.33

80 % Recovery (ft.): 13.01

Calc. Casing Vol. (gal.): 2.95
(2" = .17) (3" = .38) (4" = .66) (6" = 1.5)

Calc. Purge Vol. (gal.): ___

Final DTW (ft.): 9.48 @ 1045

Final TD (ft.): 26.88

Product Bailed (gal.): Ø

## FIELD MEASUREMENTS

| TIME | VOLUME (gal.) | pH (units) | TEMP. (degrees F) | E.C. (umhos/cm) | COLOR | DTW (if dry) |
|---|---|---|---|---|---|---|
| 1032 | 3 | 7.13 | 56.9 | 6.02 x10² | YELLOW/BRN. | |
| 1037 | 6 | 7.02 | 58.8 | 6.20 x10² | YELLOW/BRN. | |
| 1041 | 9 | 6.94 | 60.2 | 6.53 x10² | YELLOW/BRN. | |
| 1044 | 12 | 6.91 | 60.4 | 6.51 x10² | YELLOW/BRN. | |
| | | | | | | |
| | | | | | | |

Odor? NONE

Actual Purge Vol. (gal.): 12

PURGE METHOD:
___ Bailer (Teflon)
X Bailer (PVC)
___ Well Wizard
___ Dedicated Bailer
___ Other ___

SAMPLE METHOD:
X Bailer (Teflon)
___ Bailer (PVC)
___ Dedicated Bailer
___ Other ___

REMARKS: MW02-011795 SAMPLED @ 1100 ON 1-17-95

WEATHER: SUNNY, CLEAR, ~ 50°

# WATER DATA SHEET

PROJECT NO.: 12104

SAMPLE ID.: MW03·011795 DW01·011795 (DUPLICATE)

LOCATION: 914 SAN PABLO AVE., ALBANY

DATE: 1·17·95

STATION NO.: SIO 101

WELL/SAMPLE POINT DESIGNATION: MW-3

SAMPLER: D. LAMB

[X] SAMPLING [ ] DEVELOPING [ ] BAILING FLOATING PRODUCT

Casing Diameter:
2 inch ____
3 inch ____
4 inch ____
6 inch ____
other ____

Screened Int. (ft.): 7-27

Initial DTW (ft.): 5.44 @ 0902

Initial TD (ft.): 25.79

Water Column Height (ft.): 20.35

Casing Elev. (ft.): ____

TD (Actual) (ft.): 27

80 % Recovery (ft.): 9.51

Calc. Casing Vol. (gal.): 3.45
(2" = .17) (3" = .38) (4" = .66) (6" = 1.5)

Calc. Purge Vol. (gal.): 13.84

Final DTW (ft.): 5.52 @ 1129

Final TD (ft.): 25.78

Product Bailed (gal.): Ø

## FIELD MEASUREMENTS

| TIME | VOLUME (gal.) | pH (units) | TEMP. (degrees F) | E.C. (umhos/cm) | COLOR | DTW (if dry) |
|---|---|---|---|---|---|---|
| 1113 | 3.5 | 6.84 | 57.4 | 2.14 x10² | YELLOW/BRN. | |
| 1119 | 7.0 | 7.74 | 59.9 | 2.21 x10² | YELLOW/BRN. | |
| 1124 | 10.5 | 7.68 | 61.2 | 2.12 x10² | YELLOW/BRN. | |
| 1128 | 14.0 | 7.62 | 61.4 | 2.16 x10² | YELLOW/BRN. | |
| | | | | | | |
| | | | | | | |

Odor? NONE

Actual Purge Vol. (gal.): 14

PURGE METHOD:
___ Bailer (Teflon)
_X_ Bailer (PVC)
___ Well Wizard
___ Dedicated Bailer
___ Other ____

SAMPLE METHOD:
_X_ Bailer (Teflon)
___ Bailer (PVC)
___ Dedicated Bailer
___ Other ____

REMARKS: MW03·011795 SAMPLED @ 1145 ON 1·17·95
DW01·011795 SAMPLED @ 1210 ON 1·17·95

WEATHER: SUNNY, COOL, ≈ 51°.

# APPENDIX C

## Chain-of-Custody Records
## and
## Certified Analytical Data

# LABORATORY

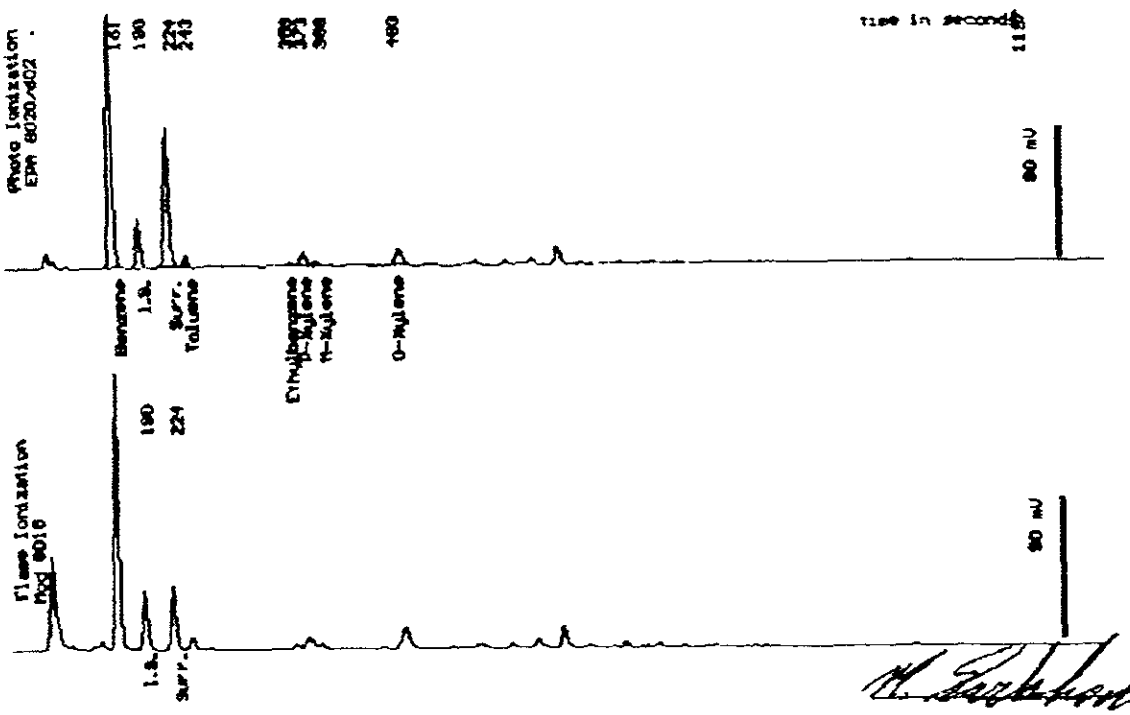
Sample Log 11124

11124-3

Sample: MW01-011795

From : Project # 12104 (Joe Sio Chevrolet)
Sampled : 01/17/95
Dilution : 1:3 QC Batch : 4111M
Matrix : Water

| Parameter | (MRL) ug/L | Measured Value ug/L |
|---|---|---|
| Benzene | (.75) | 250 |
| Toluene | (.75) | 11 |
| Ethylbenzene | (.75) | 5.3 |
| Total Xylenes | (1.3) | 56 |
| TPH as Gasoline | (130) | 600 |
| Surrogate Recovery | | 98 % |




Date Analyzed: 01-20-95
Column : 0.53mm ID X 30m DB624 (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

WEST LABORATORY

Sample Log 11124

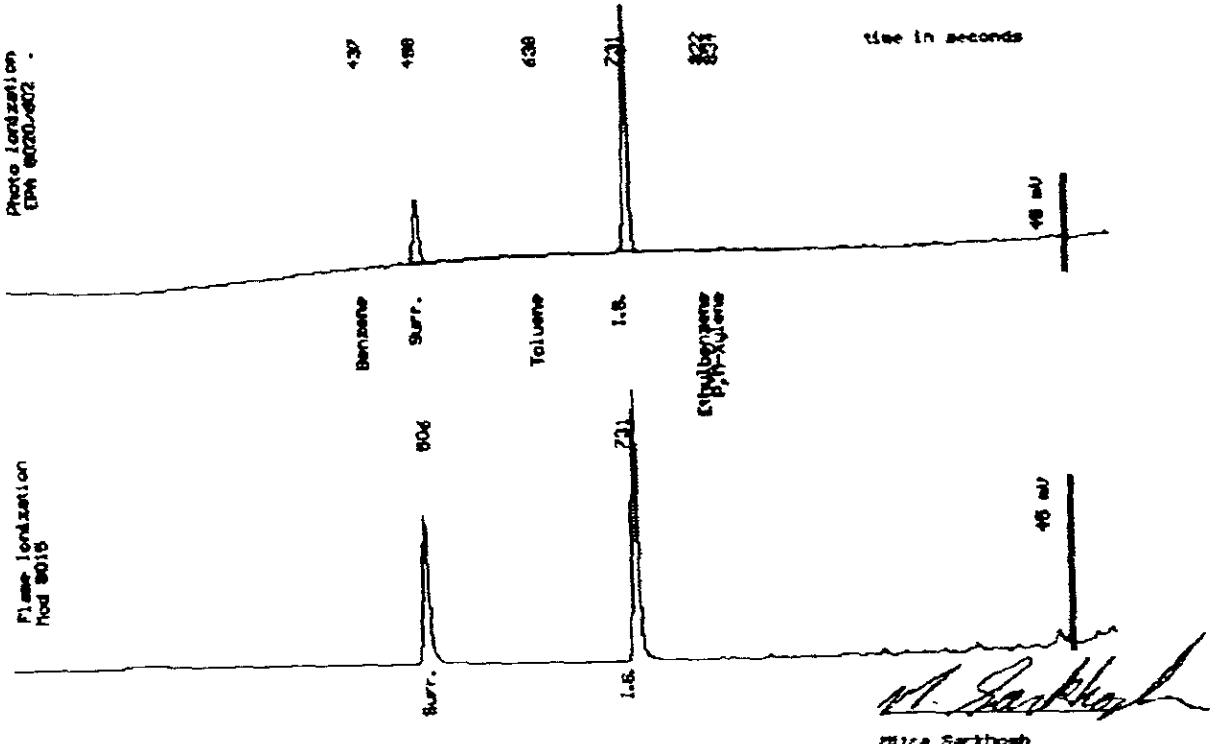
11124-4

Sample: MW02-011795

From : Project # 12104 (Joe Sio Chevrolet)
Sampled : 01/17/95
Dilution : 1:1 QC Batch : 6138K
Matrix : Water

| Parameter | (MRL) ug/L | Measured Value ug/L |
|---|---|---|
| Benzene | (.30) | <.30 |
| Toluene | (.30) | <.30 |
| Ethylbenzene | (.30) | <.30 |
| Total Xylenes | (.50) | <.50 |
| TPH as Gasoline | (50) | <50 |
| Surrogate Recovery | | 101 * % |

* External standardization was used due to matrix interference.




Date Analyzed 01-23-95
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Mitra Santhosh
Senior Chemist

Sample: MW02-011795

From : Project # 12104 (Joe Sio Chevrolet)
Sampled : 01/17/95 Received : 01/17/95
Matrix : Water Analyzed : 01/23/95

601 - Halogenated Volatile Organics

| Parameter | (MRL) ug/L | Measured Value ug/L | Flag |
|---|---|---|---|
| **Chloromethane** | **(0.50)** | **.94** | |
| Chloroethane | ( 1.0) | < 1.0 | |
| Vinyl Chloride | (0.50) | <0.50 | |
| Bromomethane | ( 1.0) | < 1.0 | |
| Trichlorofluoromethane | (0.50) | <0.50 | |
| 1,1-Dichloroethene | (0.50) | <0.50 | |
| Dichloromethane | (0.50) | <0.50 | |
| t-1,2-Dichloroethene | (0.50) | <0.50 | |
| 1,1-Dichloroethane | (0.50) | <0.50 | |
| Chloroform | (0.50) | <0.50 | |
| 1,1,1-Trichloroethane | (0.50) | <0.50 | |
| 1,2-Dichloroethane | (0.50) | <0.50 | |
| **Carbon Tetrachloride** | **(0.50)** | **.98** | |
| 1,2-Dichloropropane | (0.50) | <0.50 | |
| **Trichloroethene** | **(0.50)** | **.58** | |
| Bromodichloromethane | (0.50) | <0.50 | |
| **c-1,2-Dichloroethene** | **(0.50)** | **.51** | |
| c-1,3-Dichloropropene | (0.50) | <0.50 | |
| t-1,3-Dichloropropene | (0.50) | <0.50 | |
| 1,1,2-Trichloroethane | (0.50) | <0.50 | |
| **Tetrachloroethene** | **(0.50)** | **100** | |
| Dibromochloromethane | (0.50) | <0.50 | |
| Chlorobenzene | (0.50) | <0.50 | |
| Bromoform | (0.50) | <0.50 | |
| 1,1,2,2-Tetrachloroethane | (0.50) | <0.50 | |
| 1,4-Dichlorobenzene | (0.50) | <0.50 | |
| 1,3-Dichlorobenzene | (0.50) | <0.50 | |
| 1,2-Dichlorobenzene | (0.50) | <0.50 | |
| 2-Chlorotoluene (Surrogate) | | 93 % | |

Joel Kiff
Senior Chemist

WEST LABORATORY

January 20, 1995
Sample Log 11124

From : Project # 12104 (Joe Sio Chevrolet)
Date Sampled : 01/17/95
Matrix : Water

Date Received 01/17/95
Units : (mg/L)

**Total Lead by GFAA by SW-846 Method 7421**

| WEST ID | Sample ID | Result | MRL | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| 11124-3 | MW01-011795 | 0.0096 | 0.003 | 01/19/95 | 01/20/95 |
| 11124-4 | MW02-011795 | 0.031 | 0.003 | 01/19/95 | 01/20/95 |

MRL = Method Reporting Limit

Michelle L. Anderson
Inorganics Supervisor

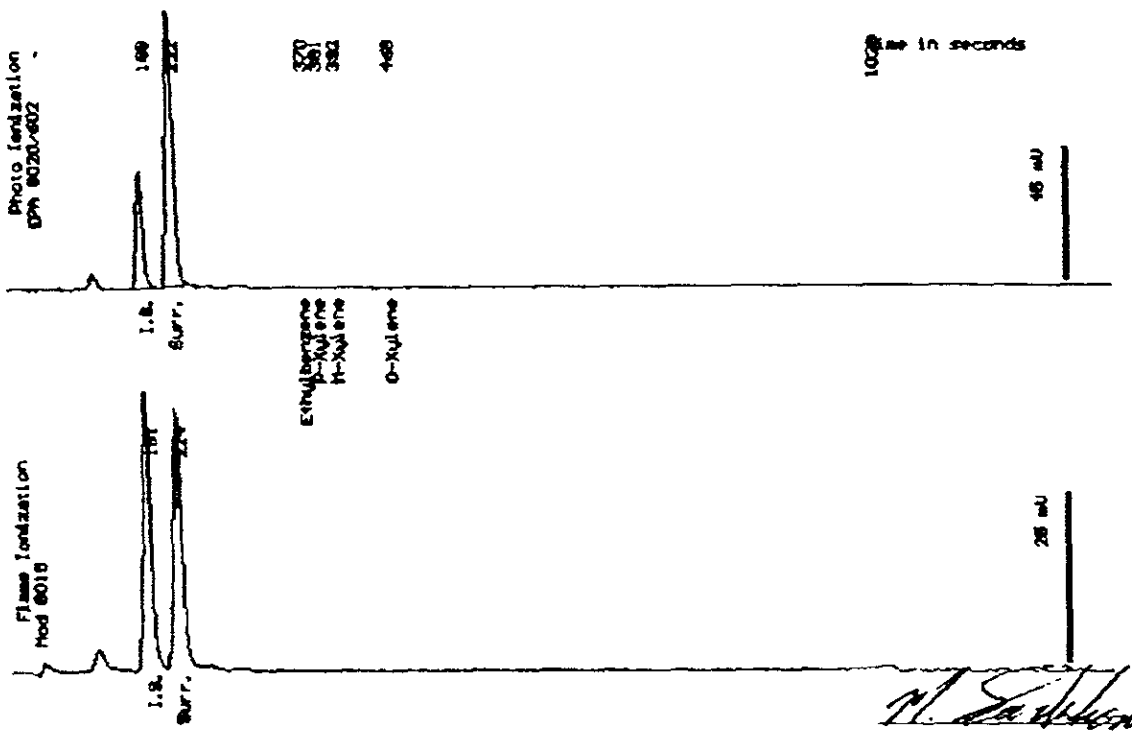
Sample Log 11124

11124-8

Sample: MW03-011795

From : Project # 12104 (Joe Sio Chevrolet)
Sampled : 01/17/95
Dilution : 1:1 QC Batch : 2112c
Matrix : Water

| Parameter | (MRL) ug/L | Measured Value ug/L |
|---|---|---|
| Benzene | (.30) | <.30 |
| Toluene | (.30) | <.30 |
| Ethylbenzene | (.30) | <.30 |
| Total Xylenes | (.50) | <.50 |
| TPH as Gasoline | (50) | <50 |
| Surrogate Recovery | | 108 % |



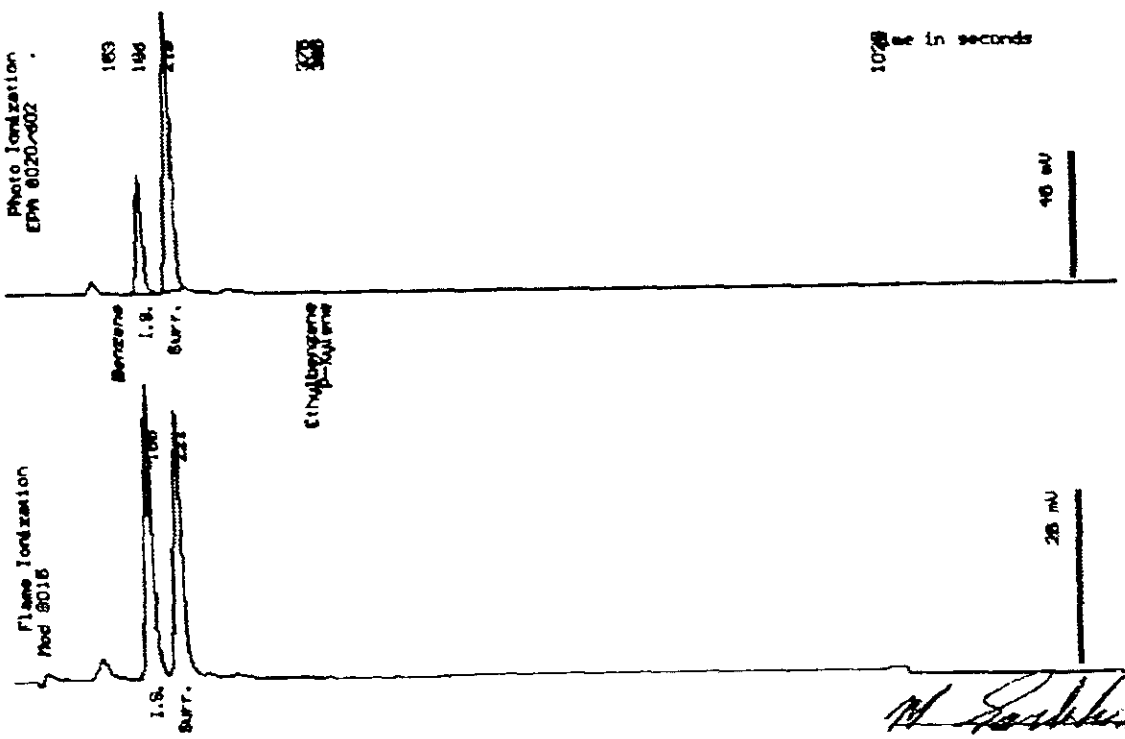

Date Analyzed: 01-19-95
Column : 0.53mm ID X 30m DB-WAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

Sample: **DW01-011795**

From : Project # 12104 (Joe Sio Chevrolet)
Sampled : 01/17/95
Dilution : 1:1 QC Batch : 2112c
Matrix : Water

| Parameter | (MRL) ug/L | Measured Value ug/L |
|---|---|---|
| Benzene | (.30) | <.30 |
| Toluene | (.30) | <.30 |
| Ethylbenzene | (.30) | <.30 |
| Total Xylenes | (.50) | <.50 |
| TPH as Gasoline | (50) | <50 |
| Surrogate Recovery | | 107 % |




Date Analyzed: 01-19-95
Column : 0.53mm ID X 30m DB-WAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

WEST LABORATORY

January 24, 1995
Sample Log 11124-5

Sample : MW03-011795
From : Project # 12104 (Joe Sto Chevrolet)
Matrix : Water

Date Sampled : 01/17/95
Date Received : 01/17/95
Units : (mg/L)

**Dissolved Metals Analyses by ICP and GFAA by SW-846**
**5 LUFT :"Waste Oil" Metals**

| Analyte | Result | MRL | EPA Method | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| Cadmium (Cd) | <0.004 | 0.004 | 6010 | 01/23/95 | 01/24/95 |
| Chromium (Cr) | 0.0066 | 0.007 | 6010 | 01/23/95 | 01/24/95 |
| Lead (Pb) | <0.003 | 0.003 | 7421 | 01/19/95 | 01/20/95 |
| Nickel (Ni) | <0.015 | 0.015 | 6010 | 01/23/95 | 01/24/95 |
| Zinc (Zn) | 0.022 | 0.010 | 6010 | 01/23/95 | 01/24/95 |

MRL = Method Reporting Limit

Michelle L. Anderson
Inorganics Supervisor

MEG LABORATORY

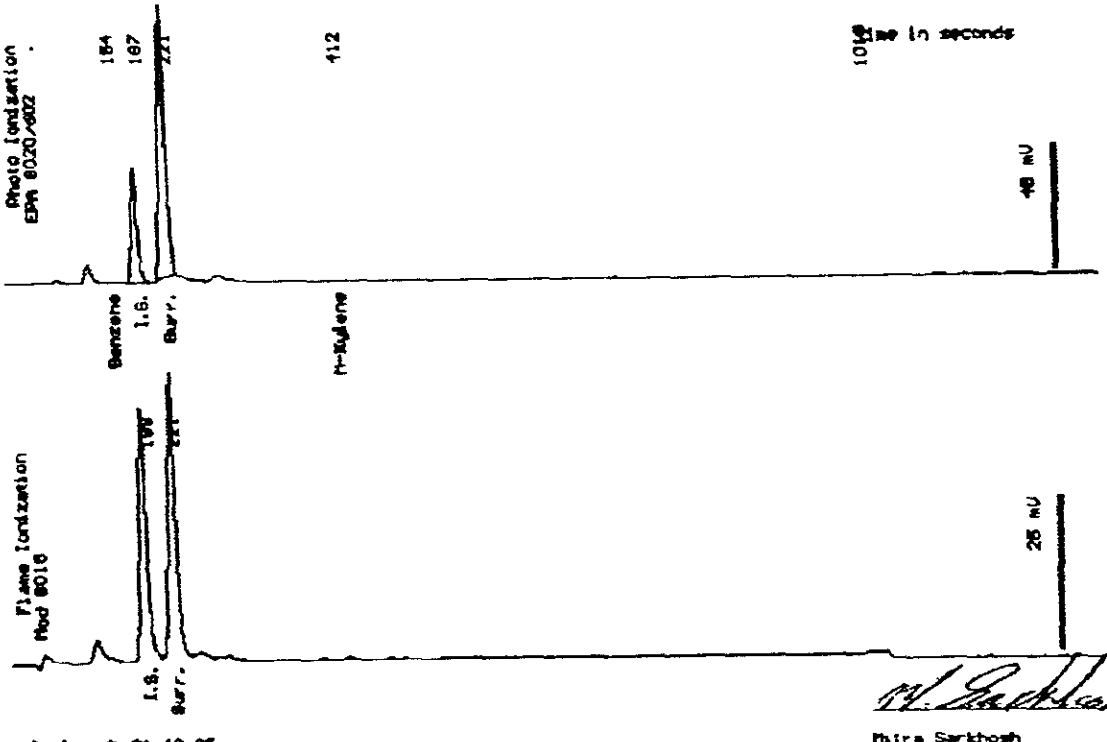
Sample Log 11124

11124-2

Sample: RS01-011795

From : Project # 12104 (Joe Sio Chevrolet)
Sampled : 01/17/95
Dilution : 1:1 QC Batch : 2112c
Matrix : Water

| Parameter | (MRL) ug/L | Measured Value ug/L |
|---|---|---|
| Benzene | (.30) | <.30 |
| Toluene | (.30) | <.30 |
| Ethylbenzene | (.30) | <.30 |
| Total Xylenes | (.50) | <.50 |
| TPH as Gasoline | (50) | <50 |
| Surrogate Recovery | | 105 % |




Date Analyzed 01-19-95
Column : 0.53mm ID X 30m DB624 (J&W Scientific)

Mira Sarthosh
Senior Chemist

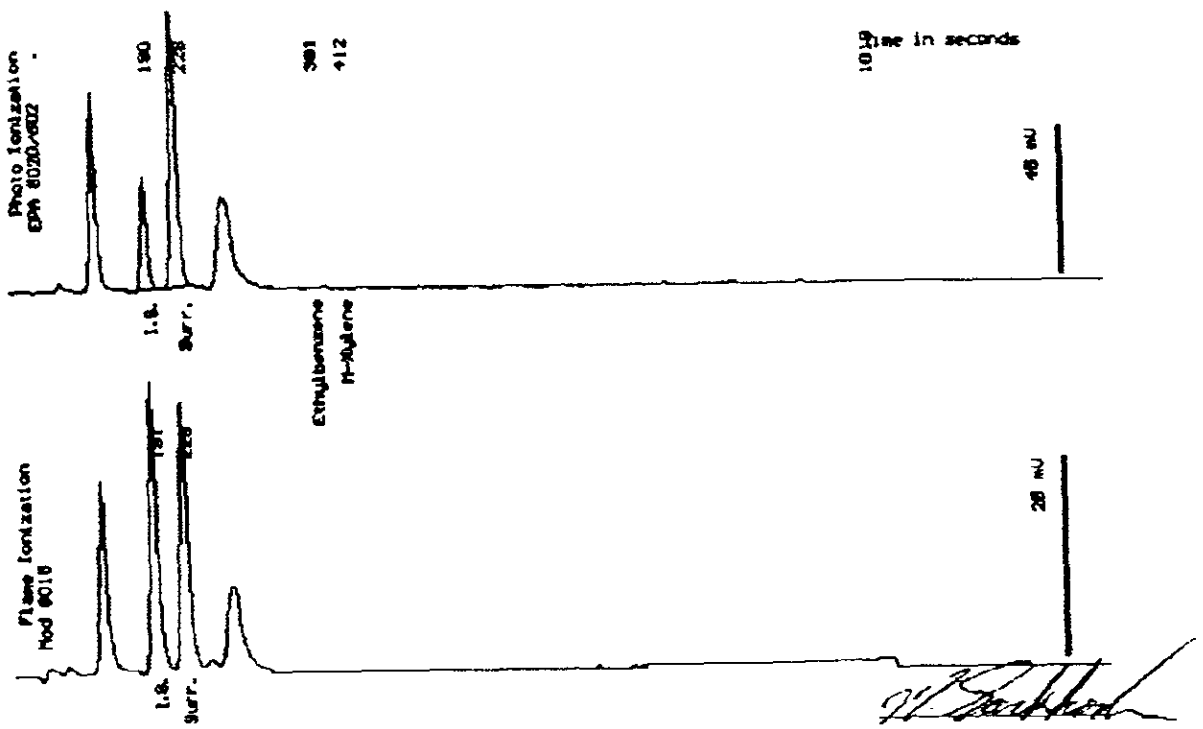
WEST LABORATORY

Sample Log 11124
11124-1

Sample: TB01-011795

From : Project # 12104 (Joe Sio Chevrolet)
Sampled : 01/17/95
Dilution : 1:1 QC Batch : 2112c
Matrix : Water

| Parameter | (MRL) ug/L | Measured Value ug/L |
|---|---|---|
| Benzene | (.30) | <.30 |
| Toluene | (.30) | <.30 |
| Ethylbenzene | (.30) | <.30 |
| Total Xylenes | (.50) | <.50 |
| TPH as Gasoline | (50) | <50 |
| Surrogate Recovery | | 112 % |




Date Analyzed 01-19-95
Column : 0.53mm ID X 30m DB624 (J&W Scientific)

Mitra Santhosh
Senior Chemist

WEST LABORATORY

January 20, 1995

**Metals QC Report for Sample Log 11124**

From . Project # 12104 (Joe Sio Chervolet)
Matrix : Water
Sample Spiked for MS/MSD : 11124-5

Units : (mg/L)

**Method Blank**

| Analyte | Result | MRL | EPA Method | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| Lead (Pb) | <0.003 | 0.003 | 7421 | 01/19/95 | 01/20/95 |

MRL = Method Reporting Limit

**Laboratory Control Sample (LCS)**

| Analyte | % Recovery | EPA Method | Date Digested | Date Analyzed |
|---|---|---|---|---|
| Lead (Pb) | 98 | 7421 | 01/19/95 | 01/20/95 |

LCS Limits are 85 - 115%.

**Matrix Spikes**

| Analyte | MS % Recov | MSD % Recov | RPD | EPA Method | Date Digested | Date Analyzed |
|---|---|---|---|---|---|---|
| Lead (Pb) | 94 | 96 | 4 | 7421 | 01/19/95 | 01/20/95 |

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference
Spike Recovery Limits for Matrix Spikes are 75 - 125%. The RPD Limits are ± 20%.

Michelle L. Anderson
Inorganics Supervisor

MET LABORATORY

January 24, 1995

**Metals QC Report for Sample Log 11124 (cont'd)**

From : Project # 12104 (Joe Sio Chevrolet)
Sample Spiked for MS/MSD : 11124-5

**Matrix Spikes**

| Analyte | MS % Recov | MSD % Recov | RPD | EPA Method | Date Digested | Date Analyzed |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | 117 | 115 | 2 | 6010 | 01/23/95 | 01/24/95 |
| Chromium (Cr) | 98 | 98 | 0 | 6010 | 01/23/95 | 01/24/95 |
| Lead (Pb) | 94 | 98 | 4 | 7421 | 01/19/95 | 01/20/95 |
| Nickel (Ni) | 100 | 99 | 1 | 6010 | 01/23/95 | 01/24/95 |
| Zinc (Zn) | 106 | 107 | 1 | 6010 | 01/23/95 | 01/24/95 |

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference
Spike Recovery Limits for Matrix Spikes are 75 - 125%. RPD Limits are ± 20%.

Michelle L. Anderson
Inorganics Supervisor

WEST LABORATORY

January 24, 1995

**Metals QC Report for Sample Log 11124**

From : Project # 12104 (Joe Sio Chevrolet)
Matrix : Water

Units : (mg/L)

**Method Blank**

| Analyte | Result | MRL | EPA Method | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| Cadmium (Cd) | <0.004 | 0.004 | 6010 | 01/23/95 | 01/24/95 |
| Chromium (Cr) | <0.007 | 0.007 | 6010 | 01/23/95 | 01/24/95 |
| Lead (Pb) | <0.003 | 0.003 | 7421 | 01/19/95 | 01/20/95 |
| Nickel (Ni) | <0.015 | 0.015 | 6010 | 01/23/95 | 01/24/95 |
| Zinc (Zn) | <0.010 | 0.010 | 6010 | 01/23/95 | 01/24/95 |

MRL = Method Reporting Limit

**Laboratory Control Sample (LCS)**

| Analyte | % Recovery | EPA Method | Date Digested | Date Analyzed |
|---|---|---|---|---|
| Cadmium (Cd) | 112 | 6010 | 01/23/95 | 01/24/95 |
| Chromium (Cr) | 102 | 6010 | 01/23/95 | 01/24/95 |
| Lead (Pb) | 98 | 7421 | 01/19/95 | 01/20/95 |
| Nickel (Ni) | 104 | 6010 | 01/23/95 | 01/24/95 |
| Zinc (Zn) | 109 | 6010 | 01/23/95 | 01/24/95 |

LCS Limits are 85 - 115%.

Michelle L. Anderson
Inorganics Supervisor

WEST
Western Environmental Science & Technology

1046 Olive Drive, Suite 3
Davis, CA 95616

916-753-9500
FAX #: 916-753-6091
LAB#: 916-757-4650

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: 510-420-7910

Company/Address: BURLINGTON ENVIRONMENTAL FAX #: 510 658 7990

5901 Christie Ave, Ste 501 Emeryville, CA

Project Number: 1204

P.O.#: 52863

Project Name: Joe Sub Chevrolet

Project Location: 914 San Pablo Ave., Albany, Ca

Sampler Signature:

## ANALYSIS REQUEST

TAT

| Sample ID | Sampling DATE | Sampling TIME | Container VOA | Container SLEEVE | Container 1L GLASS | Container 1L PLASTIC | Method Preserved HCl | Method Preserved HNO3 | Method Preserved ICE | Method Preserved NONE | Matrix WATER | Matrix SOIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1995 | | | | | | | | | | | |
| TB01-011795 | 1-17 | 0645 | X | | | | X | | X | | X | |
| BS01-011795 | 1-17 | 0900 | X | | | | X | | X | | X | |
| MW01-011795 | 1-17 | 1020 | X | | | X | X | X | X | X | X | |
| MW02-011795 | 1-17 | 1100 | X | | | X | X | X | X | | X | |
| MW03-011795 | 1-17 | 1145 | X | | | X | X | X | X | | X | |
| DW01-011795 | 1-17 | 1210 | X | | | | X | | X | | X | |

| Sample ID | BTEX (602/8020) | BTEX/TPH as Gasoline (602/8020/8015) | TPH as Diesel/Oil (8015) | Total Oil & Grease (5520 B/E,F) | Total Oil & Grease IR (5520 B/E,F,C) | 96 - Hour Fish Bioassay | EPA 601/8010 | EPA 602/8020 | EPA 8150/8150 | EPA 608/8080 - Pesticides | EPA 608/8080 - PCBs | EPA 624/8240 | EPA 625/8270 | ORGANIC LEAD | Reactivity, Corrosivity, Ignitibility | W.E.T. (*) | TOTAL (*) | CAM - 17 Metals | EPA - Priority Pollutant Metals | LEAD(7420/7421/239.2) | Cd, Cr, Pb, Zn, Ni | 5 WET | TOTAL LEAD | BTEX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB01-011795 | | X | | | | | | | | | | | | | | | | | | | | | | |
| BS01-011795 | | X | | | | | | | | | | | | | | | | | | | | | | |
| MW01-011795 | | X | | | | | | | | | | | | | | | | | | | | | X | X |
| MW02-011795 | | X | | | | | | | | | | | | | | | | | | | | | X | X |
| MW03-011795 | | X | | | | | | | | | | | | | | | | | | | X | X | | |
| DW01-011795 | | X | | | | | | | | | | | | | | | | | | | | | | |

RECEIVED
DATE 1/17 TIME 1515
TEMP 0°C
INITIAL
WEST LAB

RUSH SERVICE (12 hr) or (24 hr)

EXPEDITED SERVICE (48 hr) or (1 wk)

STANDARD SERVICE (2 wk) 1 wk X

| Relinquished by: | Date | Time | Received by: |
|---|---|---|---|
| | 1/17/95 | 1555 | |
| Relinquished by: | Date | Time | Received by: |
| | 1/17/95 | 1515 | |
| Relinquished by | Date | Time | Received by Laboratory: |
| | 1/17/95 | 1515 | |

Remarks:
NOTE MW03-011795 filtered in Field (METALS ONLY).

Bill To: