2: 15:1-9 PH 2:21



.





#### LETTER OF TRANSMITTAL

To:	Alameda County Dept of Env Health	Date:	November 8, 1995
ATTN:	1131 Harbor Bay Pky Oakland, CA 94502 Ms. Juliet Shin	Project:	Joe Sio Chevrolet SIO101/12104.2001
2) 3)	For Review and Comment ( For Approval ( ) As Requested ( ) For Your Use (x)	)	

We are enclosing (x)/Sending under separate cover ():

No. of Copies	Description	
1	Bound "Quarterly Groundwater Monitoring Report, Fourth Quarter 1995"	

#### Comments:

Dear Ms. Shin:

Philip Environmental Services Corporation is please to submit the enclosed document. If you have any questions, please do not hesitate to call me at (510) 420-7910.

By: David C. Tight

Del

cc: Ms. Florence Ann Connors

#### QUARTERLY GROUNDWATER MONITORING REPORT Fourth Quarter 1995

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

**November 7, 1995** 

#### Prepared for:

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

### Prepared by:

### PHILIP ENVIRONMENTAL SERVICES CORPORATION

5901 Christie Avenue, Suite 501 Emeryville, California 94608

SIO101/12104



November 7, 1995 SIO101/12104

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

Subject: QUARTERLY GROUNDWATER MONITORING REPORT

Fourth Quarter 1995 Joe Sio Chevrolet

914-916 San Pablo Avenue, Albany, California

Dear Ms. Connors:

Philip Environmental Services Corporation (Philip), is pleased to submit the following quarterly groundwater monitoring report for Joe Sio Chevrolet, located at 914-916 San Pablo Avenue in Albany, California (see Figure 1). The groundwater monitoring and sampling was conducted by Philip in October 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). 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). 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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Ms. Florence Ann Connors November 7, 1995 Page 2

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, Philip received authority to proceed with quarterly groundwater monitoring at the site.

#### MONITORING ACTIVITIES

The fourth quarter 1995 monitoring event was conducted on October 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 was field filtered using a 0.45  $\mu$ m filter prior to the analysis of the five metals.

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.

#### RESULTS

The groundwater elevation in the monitoring wells beneath the site on October 17, 1995 ranged from 30.74 to 32.21 feet above mean sea level (see Table 2). A contour map of these data is presented in Figure 3. The approximate groundwater flow direction based on the October data is to the west with an approximate hydraulic gradient of 0.008 feet/foot. This flow direction, while inconsistent with the flow directions seen during the last three monitoring events (to the northeast during first quarter 1995, to the southeast during the second quarter 1995, and to the south during the third quarter 1995), is consistent with the flow direction of the equivalent event last year (fourth quarter 1994) and follows the anticipated groundwater flow direction, based on topography and proximity to the San Francisco Bay. It is possible that the flow reversals during the first three quarters of 1995 are manifestations of an unusually wet winter.

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Ms. Florence Ann Connors November 7, 1995 Page 3

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. Concentrations of petroleum hydrocarbons were found in the groundwater sample collected from well MW-1, including 90 micrograms per liter ( $\mu$ g/L) of TPHg and 29  $\mu$ g/L of benzene. These levels are among the lowest levels recorded for those analytes in well MW-1. Similar contaminant levels were found in the duplicate groundwater sample from MW-1.

Trace concentrations of lead were detected in the groundwater samples from both MW-1 and MW-2. Both lead levels are below the primary maximum contaminant level (MCL) and are not considered to be of concern.

Elevated concentrations of tetrachloroethene (PCE) continue to be found in the groundwater sample from well MW-2, at 60  $\mu$ g/L. In addition, levels of carbon tetrachloride were found slightly above the MCL of 1.1  $\mu$ g/L in the sample. Although the PCE level exceeds its 5  $\mu$ g/L MCL, there is no known source of PCE onsite, and an offsite source for the halogenated hydrocarbons is likely. The levels of PCE have decreased since first encountered in January 1995.

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

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. Due to the abundance of utilities present beneath the sidewalk overlying the former tank location, as documented in Philip's correspondence to you dated May 5, 1995, no corrective action is proposed at this time.

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Ms. Florence Ann Connors November 7, 1995 Page 4

The next quarterly groundwater monitoring event is scheduled for January 1996. Philip appreciates the opportunity to provide you with quality consulting and environmental services. Please feel free to contact us if we can provide further assistance.

Sincerely,

#### PHILIP ENVIRONMENTAL SERVICES CORPORATION

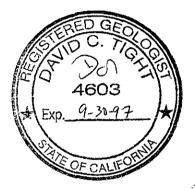
Daryl A. Lamb

Field Services Supervisor

David C. Tight, R.G. No. 4603

Investigation/Remediation Manager

Paryl Jamb/KSF



#### Attachments:

Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Groundwater Elevation Contours

Table 1 - Groundwater Analytical Data-Petroleum Hydrocarbons Fuel Analysis

Table 1a - Groundwater Analytical Data-Chlorinated Hydrocarbons Analysis

Table 2 - Groundwater Elevation Data

Appendix A - Groundwater Sampling and Analysis Procedures

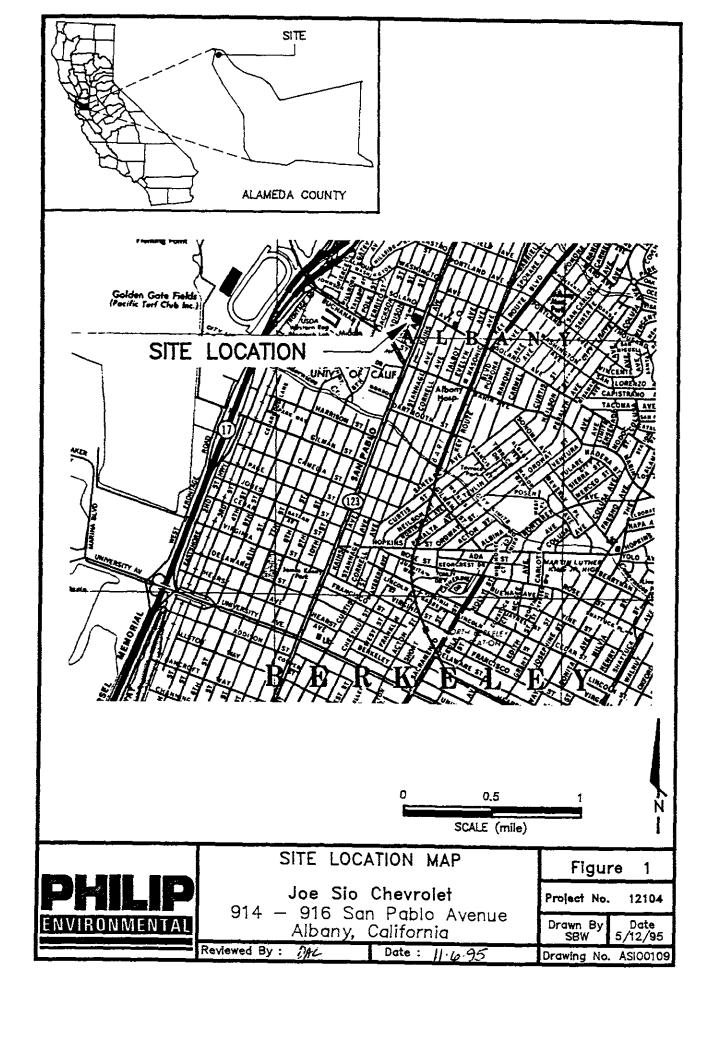
Appendix B - Water Sample Field Data Sheets

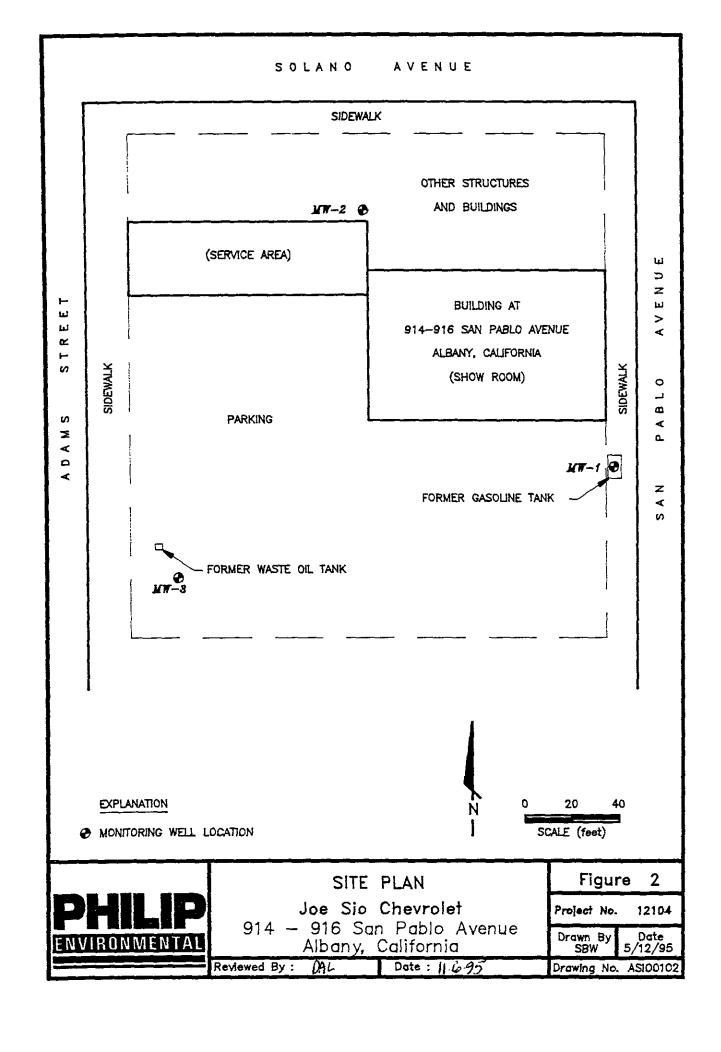
Appendix C - Chain-of-Custody Records and Certified Analytical Reports

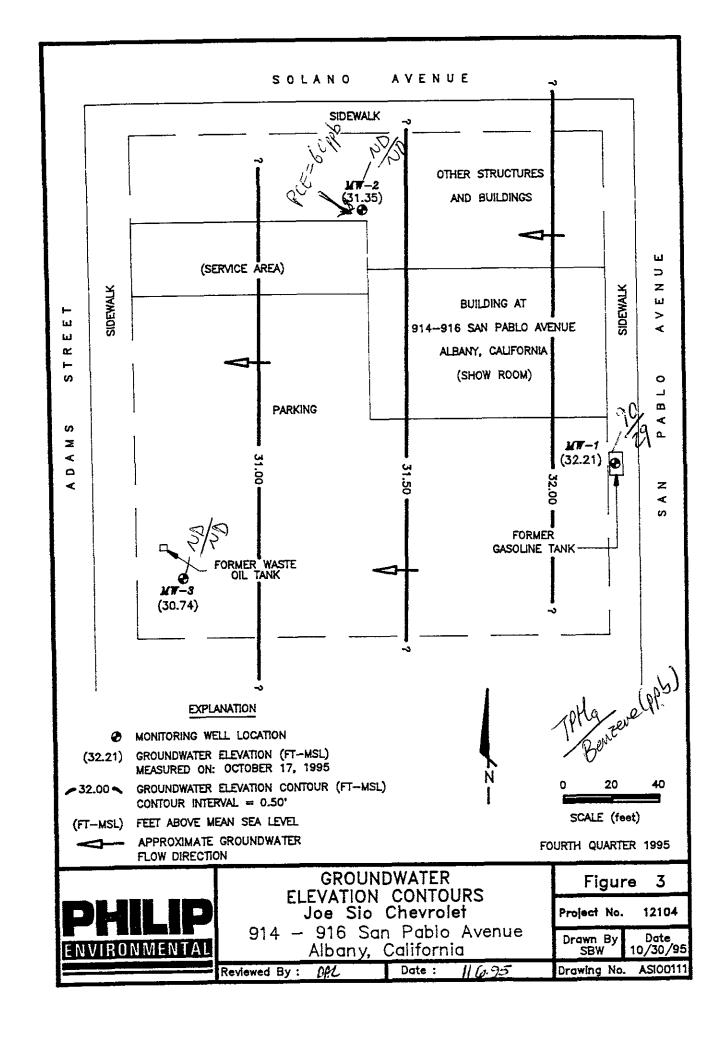
cc: Ms. Juliet Shin (ACDEH)

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FIGURES 1 - 3







TABLES 1 - 2

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TABLE 1
GROUNDWATER ANALYTICAL DATA
PETROLEUM HYDROCARBONS FUEL ANALYSIS

#### Joe Sio Chavrolet 914-916 San Pablo Avenue, Albany, California

			TPH			Ethyl-	Total	Total Oil		<b></b>	1	Nickel	Zinc
Monitoring	Date	Sample	Gasoline	Benzene	Toluene	benzene	Xylenes	and Grease	Cadmium	Chromium	Lead		(mg/L)
Well No.	Sampled	No.	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L) AA	(mg/L) AA	AA
	EPA An	alytical Method:	8015m	602	602	602	602	9070	AA	AA			
Groundwater A	Analyses:								516	NA	NA	NA	NA
MW-1	8/7/91	MW-1	110	16	2	0.7	15	NA.	NA NA	NA NA	0.0093	NA.	NA.
	4/15/94	MW01-041594	2,500	880	22	79	47	NA NA	NA NA	NA NA	0.0059	NA NA	NA.
	7/14/94	MW01-071494	470	110	22	21	87	NA	NA NA	NA NA	0.008	NA.	NA
	10/14/94	MW01-101494	380	86	17	24	77	NA	NA NA	NA NA	0.0098	NA NA	NA
	1/17/95	MW01-011795	600	250	11	5,3	56	NA		NA NA	0.018	NA.	NA
	4/19/95	MW01 041995	210	69	3.7	3.7	12	NA	NA	NA NA	0.0048	NA.	NA.
	7/13/95	MW01071395	110	30	4.7	8.2	20	NA	NA		0.0088	NA NA	NA.
	10/17/95	MW01 101795	90	29	3.7	10	23	NA	NA	NA	NA	NA NA	NA NA
	10/17/95 d	DW01 101795	110	32	4.3	12	26	NA	NA	NA	NA	110	144
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
MAA-5	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
	4/19/95	MW02 041995	ND(<50)	ND(<0 30) *	ND(<0.30) *	ND(<0 30) *	ND(<0 50) *	NA	NA	NA	ND(<0 003)	NA.	NA NA
	7/13/95	MW02071395	ND(<50)	ND(<0.30)	ND(<0 30)	ND(<0 30)	ND(<0 50)	NA	NA	NA	0.038	NA	NA NA
	10/17/95	MW02 101795	ND(<50)	ND(<0 30)	ND(<0.30)	ND(<0 30)	ND(<0.50)	NA	NA	NA	0.028	NA	NA
	8/7 <i>1</i> 91	MW-3	NA(<50)	ND(<0 50)	ND(<0 50)	ND(<0 50)	ND(<0.50)	ND(<5)	NA	NA	NA	NA	NA
MW-3	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
	4/15/94 G 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 u	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 (
	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	NĄ
	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	ŅA
	4/19/95	MW03 041995	ND(<50)	ND(<0.30)	ND(<0 30)	ND(<0 30)	ND(<0.50)	NA	0.0091	0.019	0.068	0.067	1.3
	4/19/95 d	DW03 041995	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0 30)	ND(<0.50)	NA	NA	NA	NA	NA	NA
	7/13/95	MW03071395	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0 30)	ND(<0 50)	NA	ND(<0 004)	0.012	ND(<0 003)	ND(<0 015)	0.024
	7/13/95 d	DW01071395	ND(<50)	ND(<0 30)	ND(<0.30)	ND(<0.30)	ND(<0 50)	NA	NA	NA	NA	NA	NA
	10/17/95	MW03 101795	ND(<50)	ND(<0 30)	ND(<0.30)	ND(<0 30)	ND(<0 50)	NA	ND(<0.004)	ND(<0 007)	ND(<0 003)	ND(<0.015)	ND(<0 010)
Rinsate Analy		0004 044504	ND(<50)	ND(<0 30)	ND(<0 30)	ND(<0 30)	ND(<0.50)	NA	NA	NA	NA	NA	NA
	4/15/94	RS01-041594		ND(<0.30) ND(<0.30)	0.33	ND(<0 30)	0,65	NA	NA	NA	NA	NA	NA
	7/14/94	RS01-071494	ND(<50)		ND(<0.30)	ND(<0 30)	ND(<0.50)	NA	NA	NA	NA	NA	NA
	10/14/94	RS01-101494	ND(<50)	ND(<0.30)	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	NA
	4/19/95	RS01 041995	ND(<50)	ND(<0.30)	ND(<0 30) ND(<0 30)	ND(<0 30)	ND(<0.50)	NA.	NA.	NA.	NA	NA	NA
	7/13/95	RS01071395	ND(<50)	ND(<0.30)		ND(<0 30)	ND(<0.50)	NA.	NA.	NA	NA	NA	NA
	10/17/95	RS01 101795	ND(<50)	ND(<0 30)	ND(<0.30)	(AD(~0.90)	(40(~000)	103		/ <del></del> -			

# TABLE 1 GROUNDWATER ANALYTICAL DATA PETROLEUM HYDROCARBONS FUEL ANALYSIS (continued)

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

Monitoring Well No.	Date Sampled EPA An	Sample No. alytical Method:	TPH Gasoline (ug/L) 8015m	Benzene (ug/L) 602	Toluene (ug/L) 802	Ethyl- benzene (ug/L) 602	Total Xylenes (ug/L) 602	Total Oil and Grease (mg/L) 9070	Cadmlum (mg/L) AA	Chromlum (mg/L) AA	Lead {mg/L} AA	Nickel (mg/L) AA	Zinc (mg/L) AA
Trip Blank Ana	lyses: 4/15/84 7/14/94 10/14/94 1/17/95 7/13/95 10/17/95	TB01-041594 TB01-071494 TB01-101494 TB01-011795 TB01071395 TB01071395	ND(<50) ND(<50) ND(<50) ND(<50) ND(<50) ND(<50)	ND(<0.30) ND(<0.30) ND(<0.30) ND(<0.30) ND(<0.30) ND(<0.30)	ND(<0.30) ND(<0.30) ND(<0.30) ND(<0.30) ND(<0.30) ND(<0.30)	ND(<0 30) ND(<0 30) ND(<0.30) ND(<0.30) ND(<0.30) ND(<0 30)	ND(<0.50) ND(<0.50) ND(<0.50) ND(<0.50) ND(<0.50) ND(<0.50)	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	AA AA AA AA AA
DRINKING WA Catifornia Prima Maximum Conta	•			1	150	700	1750		0 005	0.05	0 05	0.1	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 (perts per million)

NA Not analyzed

ND Concentration below detection limit presented in parentheses

ug/L Micrograms per liter (parts per billion)

# TABLE 1a GROUNDWATER ANALYTICAL DATA CHLORINATED HYDROCARBONS ANALYSIS

#### Joe Sio 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- ethane
		alytical Method:	601	601	601	601	601
MW-2	1/17/95 4/19/95 7/13/95 10/17/95	MW02-011795 MW02 041995 MW02071395 MW02 101795	0.94 ND(<0.50) ND(<0.50) ND(<1.0)	0.98 0.83 0.98 1.1	0.58 ND(<0.50) ND(<0.50) ND(<1.0)	0.61 ND(<0.50) ND(<0.50) ND(<1.0)	100 76 68 60
DRINKING WA' California Prima Maximum Conta	ary	D <b>S</b> ·	•	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

		Total	тос	Depth to	Water
Monitoring	Date	Depth	Elevation	Water	Elevation
Well No.	Measured	(ft-BTOC)	(ft-MSL)	(ft-BTOC)	(ft-MSL)
					20.40
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
	4/19/95	29.62	42.61	9.74	32.87
	7/13/95	29.79	42.61	10.31	32.30
	10/17/95	29.84	42.61	10.40	32.21
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
	4/19/95	26.71	42.73	7.99	34.74
	7/13/95	26,91	42.73	9.91	32.82
	10/17/95	26.96	42.73	11.38	31.35
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
	4/19/95	25.65	39.44	5.99	33.45
	7/13/95	25.85	39,44	7.38	32.06
	10/17/95	25.79	39.44	8.70	30.74

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-ofcustody 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

LOCATION: 9145AN PAISLO AVE, ALBANY, CA

SAMPLER: W. BARKWILL TIME AND DATE OF SYSTEM

PROJECT NO.: 12104

STATION NO.: 500 SIO CHEVROLOT

DATE: 10/17/9-

START-UP:

			7 - 1	177193			
WELL SO	TOTAL DEPTH (Feet)	UELL DIAMETER (In)	DEPTH TO WATER (Feet)	DEPTH TO FLOATING PRODUCT (Feet)	FLOATING PRODUCY THICKNESS (Feet)	TIME	COMMENTS
MWOI	29,84	2_	10.40	N/A	NA	0930	
MINOZ	26.96 25.79	2	11.38	N/4	N/A N/A	0925	
MW 03	25.79	2	11.38	N/4	N/A	0915	
<del>"</del>	<u> </u>			<u> </u>			
			<u> </u>				
<del></del>			<u> </u>				
· · · · · · · · · · · · · · · · · · ·							
<del>7.0</del>							
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	<u> </u>		<del></del>	<u> </u>			

# **WATER DATA SHEET**

PROJECT NO.: 12/04	SAMPLE ID.: <u>MW8/ - 181795</u>
LOCATION: 914 SAN PARES AND ALBANY CA	DATE: 10/19/95
STATION NO .: The Sto CHEVINGLET	WELL/SAMPLE
SAMPLER: W. BARKWILL	POINT DESIGNATION: MW-/
SAMPLING DEVELOPING	BAILING FLOATING PRODUCT
Casing Diameter:  2 inch	D @ 0930 Calc. Purge Vol. (gal.): 13. 2  Final DTW (ft.): 13. 96 @ 1625  L): 19.44 Final TD (ft.): 29.86
	Product Bailed (gal.):
FIELD !	MEASUREMENTS
TIME VOLUME pH TEMI (cal.) (cal.) (cal.) (col.) (co	1 (umhos/cm)  1 3/2 103  REALIN METER  (I day)
Odor? NOIE	
Actual Purge Vol. (gal.): 13 GALS  PURGE METHOD:  Bailer (Teflon)  X Bailer (PVC)  Well Wizard  Dedicated Bailer  Other	SAMPLE METHOD:  Bailer (Teflon) Bailer (PVC) Dedicated Bailer Other
	020 ON 10/17/95
WEATHER: NORCKI N 65°C	

# WATER DATA SHEET

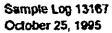
PROJECT NO.: 12/04	SAMPLE ID.: MW02 - 101795 -
LOCATION: 914 SAN PABLO ASE ALBANY, CA	DATE: 10/17/45
STATION NO .: JOE SO CHEUPOZET	WELL/SAMPLE
SAMPLER: W. BARLANILL	POINT DESIGNATION: MW-Z
SAMPLING DEVELOPING	BAILING FLOATING PRODUCT
Casing Diameter: Screened Int. (ft.):	
2 inch X 3 inch Initial DTW (ft.):	. 38 e 6925 Calc. Purge Vol. (gal.): 10.6
4 Inch Initial TD (ft.): 26	11
cther Water Column Height	(ft.): 15.58 Final TD (ft.): 26.95
TD (Actual) (ft.): 28 80 % Recovery (ft.):_	14.49 Product Bailed (gal.):
FIEL	D MEASUREMENTS
*****	EMP. E.C. COLOR DTW (# dry)
	3.3 9.87×102 LT YELLOW/BROWN
1206 8 7.21 66	1.1 9.65 × 102 CT YELL W/ SPOWN
1210 11 4.30 66	· 2 9.81 × 102 LT YOLLOW BLOWN
Odor? Now F	•
Actual Purge Vol. (gal.): 1 GAC 5	
PURGE METHOD:	SAMPLE METHOD:
Bailer (Teflon)  ———————————————————————————————————	X Bailer (Teflon) Bailer (PVC)
Weil Wizard	Dedicated Baller
Dedicated Bailer	Other
Other	<del></del>
REMARKS: SAMPLED MWOZ 10179	95 @ 1230 ON 10/17/95
WEATHER: SUNNY N 714	

# **WATER DATA SHEET**

PROJECT NO.: 12104	SAMPLE ID.: MV	003-10179	<u>r</u>	
LOCATION: 914 SAN PABLO AM ALBANY,	C4 DATE: 10/1	7/95		
STATION NO .: DOE SO CHEVAGLET	WELL/SAMPLE		. <del></del>	
SAMPLER: W. BARKWILL	POINT DESIGNA	TION: <u>MW</u>	3	
SAMPLING DEVELOPING	BAILING	FLOATING PROD	DUCT	
Casing Diameter:  2 inch	3.70@2915 6 5.79 F	Calc. Casing Vol. (gar = .17) (3 = .38) (4 Calc. Purge Vol. (gal Final DTW (ft.): 8 Calc. TD (ft.): 25 Croduct Bailed (gal.)	- 55) (6 - 15) 1): 11.6 .60 (0) 1118	
FIE	ELD MEASUREMENTS	<b>5</b>		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.5 6.4 15.5 6.4 10.3 10.3 10.3	1 × 102 LT		DTW (if day)
Odor? NONE	•			
Actual Purge Vol. (gal.): 12. GAI 5				
PURGE METHOD: Bailer (Teflon) Bailer (PVC) Well Wizard Dedicated Bailer Other	SAMPL	Bale	er (Teflon) er (PVC) icated Baller er	
REMARKS: SAMPLE MARS Disposetic balle   Filter off	101295 (a & FAR MES	1130 1915 ANT	ON 101795 NGG.	
WEATHER: SUNNYN7F				

# APPENDIX C

Chain-of-Custody Records and Certified Analytical Data





Daryl Lamb
Philip Environmental
5901 Cristie Street, Ste. 501
Emeryville, CA 94608

Subject: 6 water samples
Project Name: Joe Sio Chevrolet

Project Number: 12104 P.O. Number: 57797

Dear Mr. Lamb,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

WEST Laboratory is certified by the State of California (# 1346). If you have any questions regarding procedures or results, please call me at 916-753-9500.

Sincerely,

Joe L. Kiff



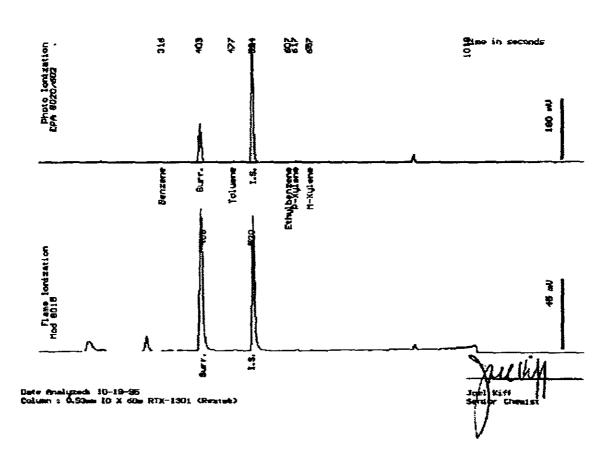
Sample: RS01 101795

From : Joe Sio Chevrolet (Proj. # 12104)

Sampled: 10/17/95 Dilution: 1:1

Dilution: 1:1 QC Batch: 2131J

Parameter	(MRL) wg/L	Measured Value wys
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery	¥	99 %





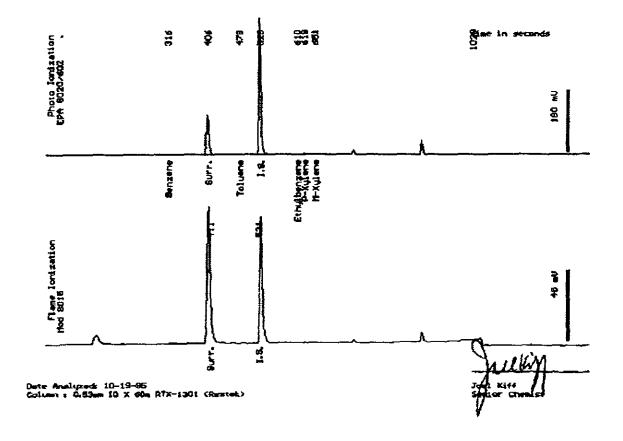
Sample: TB01 101795

Prom : Joe Sio Chevrolet (Proj. # 12104)

Sampled: 10/17/95 Dilution: 1:1

Dilution: 1:1 QC Batch: 2131J

Parameter	(MRL) 46/L	Measured Value 02/1
Benzene	(.30)	<.30
Toluene	(.30) (.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery	Y	99 %





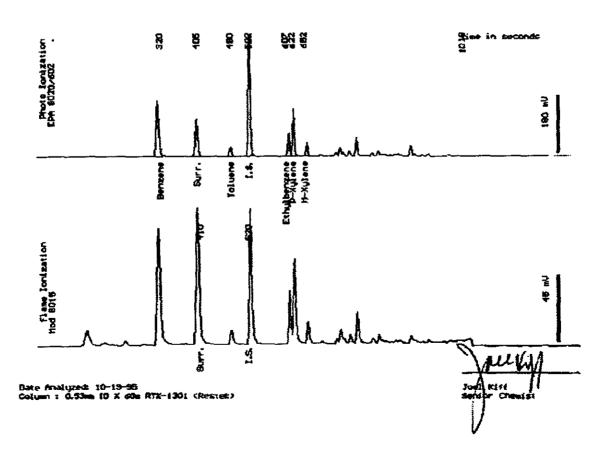
Sample: MW01 101795

From : Joe Sio Chevrolet (Proj. # 12104)

Sampled : 10/17/91 Dilution : 1:1

Dilution: 1:1 QC Batch: 2131J

Parameter	(MRL) bg/L	Measured Value سرد		
Benzene	(.30)	29		
Toluene	(.30) (.30)	3.7		
Ethylbenzene	(.30)	10		
Total Xylenes	(.50)	23		
TPH as Gasoline	(50)	90		
Surrogate Recovery	Į.	101 %		





Sample: MW02 101795

From : Joe Sio Chevrolet (Proj. # 12104)

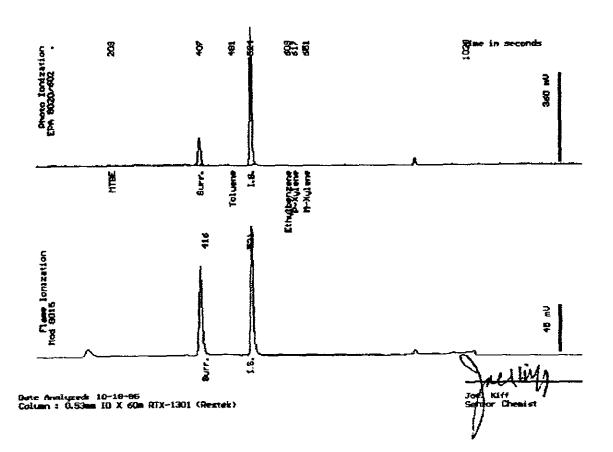
Sampled: 10/17/95

Dilution: 1:1 QC Batch: 2131J

Matrix : Water

Parameter	(MRL) mg/L	Measured Value w/L
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery	Y	99 * %
		in the material

\* External standardization was used due to matrix interference.





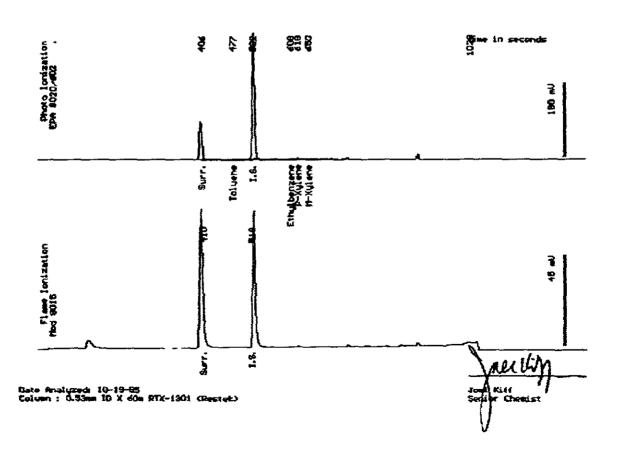
Sample: NW03 101795

From : Joe Sio Chevrolet (Proj. # 12104)

Sampled: 10/17/95

Dilution: 1:1 QC Batch: 2131J

Parameter	(MRL) mg/L	Measured Value 29/2
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery	Ţ.	98 %





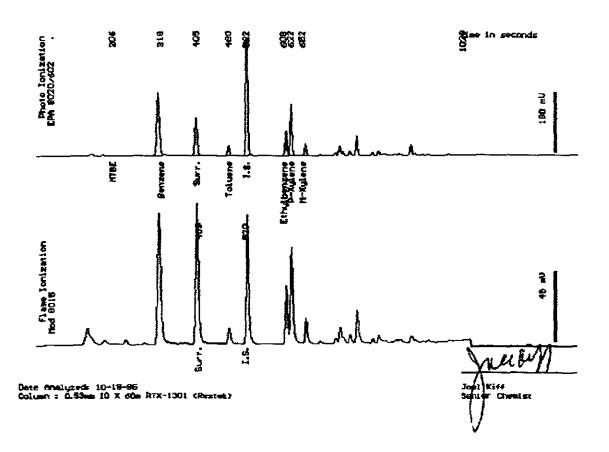
Sample Log 13167 13167-06

Sample: DWO1 101795

Prom : Joe Sio Chevrolet (Proj. # 12104)

Sampled: 10/17/95 Dilution: 1:1 QC Batch : 2131J

Parameter	(MRL) mg/L	Measured Value wa/L				
Benzene	(.30)	32				
Toluene	(.30) (.30)	4.3				
Ethylbenzene	(.30)	12				
Total Xylenes	(.50)	26				
TPH as Gasoline	(50)	110				
Surrogate Recovery	<i>(</i>	99 %				





October 20, 1995 Sample Log 13167

#### QC Report for EPA 602 & Modified EPA 8015

From : Joe Sio Chevrolet (Proj. # 12104)

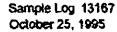
Sample(s) Received: 10/18/95

Parameter	Matrix Spike % Recovery	Hatrix Spike Duplicate % Recovery	RPD *	
Benzene	99	96	3	
Ethylbenzene	103	99	4	
TPH as Gasoline	100	97	3	

+ RPD = Relative Percent Difference

Parameter	Method Blank
Benzene	<0.30 ug/L
Toluene	<0.30 ug/L
Ethylbenzene	<0.30 ug/L
Total Xylenes	<0.50 ug/L
TPH as Gasoline	<50 ua/L

Jul Why





# **Volatile Halocarbons**

Sample Name : MW02 101795

Project Name : Joe Sio Chevrolet

Project Number : 12104
Sample Date : 10/17/95
Date Analyzed : 10/24/95
Analysis Method : EPA 601

Date Received: 10/18/95

Dilution : 1:2 Sample Matrix : Water Lab Number : 13167-04

Parameter	MRL	Measured Conc.	Units
Chloromethane	1.0	<1.0	ug/L
Vinyl Chloride	1.0	<1.0	ug/L
Bromomethane	1.0	<1.0	ug/L
Chicroethane	1.0	<1.0	ug/L
Trichlorofluoromethane	1.0	<1.0	nd\rac{1}{r}
1,1-Dichloroethene	1.0	<1.0	ug/L
Dichloromethane	1.0	<1.0	ug/L
t-1,2-Dichloroethene	1.0	<1.0	ug/L
1.1-Dichloroethane	1.0	<1.0	ug/L
o-1,2-Dichloroethene	1.0	<1.0	ug/L
Chloroform	1.0	<1.0	ug/L
1.1.1-Trichloroethane	1.0	<1.0	ug/L
Carbon Tetrachloride	1.0	1.1	ug/L
1,2-Dichloroethane	1.0	<1.0	ug/L
Trichlomethene	1.0	<1.0	ug/L
1,2-Dichloropropane	1.0	<1.0	ug/L
Bromodichloromethane	1.0	<1.0	ug/L
c-1,3-Dichloropropene	1.0	<1.0	ug/L
1-1,3-Dichioropropene	1 D	<1.0	ug/L
1.1.2-trichiomethane	1.0	<1.0	ug/L
Tetrachioroethene	1.0	60	ug/L
Dibromochloromethane	1.0	<1.0	ug/L
Chlorobenzene	1.0	<1.0	ug/L
Bronsform	1.0	<1.0	ug/L
1.1.2.2-Tetrachloroethane	1.0	<1.0	ug/L
1,3-Dichlorobenzene	1.0	<1.0	ug/L
1.4-Dichlorobenzene	1.0	<1.0	ug/L
1,2-Dichlorobenzene	1.0	<1.0	ug/L
2-Chiorotoluene (Surr.)		106	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

Approved By



**BATCH QC REPORT** 

Sample Log 13167 October 25, 1995

Project Name: Joe Sio Chevrolet

Water

Project Number: 12104

Matrix:

Parameter	Analysis Method	Date Preo	Blank Conc.	Conc. Units	Spiked Samola	Un- Spiked Sample Conc	M6 Spiked Conc.	MS Mens. Conc.	MS % Recov	MSD Spiked Canc.	MSD Meas. Conc.	MSD % Recov.	MS Recov. Limit	MS/ MSD RPD	RPD Umil
Chloromethane	EPA 601	10/24/95	< 0.50	ug/L											
Vinyl Chloride	EPA 601	10/24/95	< 0.50	ug/L											
Bromomethane	EPA 601	10/24/95	< 0.60	ug/L											
Chloroethane	EPA 501	10/24/95	< 0.50	ug/L											
Trichlorofluoromethane	EPA 801	10/24/95	< 0.60	ug/L											
1,1-Dichloroethena	EPA 601	10/24/95	< 0.50	ug/L	19170-01	< 0.50	20	17.2	86.0	20	10.4	97.0	70-130	12.0	20
Dichloromethane	EPA 801	10/24/95	< 0.60	ug/L											
t-1,2-Dichloroethene	EPA 601	10/24/95	< 0.50	սց/ե											
1,1-Dichloroethane	EPA 601	10/24/95	< 0.50	ug/L											
c-1,2-Dichloroethene	EPA 601	10/24/95	< 0.50	ug/L											
Chloroform	EPA 601	10/24/95	< 0.50	ug/L											
1,1,1-Trichioroethane	EPA 601	10/24/95	< 0.50	ug/L											
Carbon Tetrachloride	EPA 801	10/24/95	< 0.60	uo/L											
1,2-Dichloroethane	EPA 601	10/24/95	< 0.60	ug/L											
Trichlorcethene	EPA 601	10/24/95	< 0.50	ug/L	13170-01	< 0.50	20	17.8	89.5	20	18.5	92.5	70-130	3 30	20
1.2-Dichloropropane	EPA 601	10/24/95	< 0.50	ug/L											
Bromodichioromethane	EPA 601	10/24/95	< 0.50	ug/L											
c-1,3-Dichloropropane	EPA 601	10/24/95	< 0.50	ug/L											
t-1,3-Dichloropropene	EPA 601	10/24/95	< 0.50	ug/L											
1,1,2-trichtoroethane	EPA 601	10/24/95	< 0.50	ug/L											
Tetrachloroethene	EPA 601	10/24/95	< 0.50	ug/L											
Dibromochloromethane	EPA 601	10/24/96	< 0.50	ug/L											
Chiorobenzene	EPA 601	10/24/95	< 0.60	ug/L	13170-01	< 0.50	20	18.5	92.5	20	18.0	D.00	70-130	2.74	20
Bromotorm	EPA 601	10/24/95	< 0.50	ug/L											
1,1,2,2-Tetrachloroethane	EPA 601	10/24/95	< 0.50	ug/L											
2-Chlorotoluene (Surr.)	EPA 601	10/24/95	110	96											
1,3-Dichlorobenzene	EPA 601	10/24/95	< 0.60	ug/L											
1,4-Dichlorobenzene	EPA 601	10/24/95	< 0.50	ug/L											
1,2-Dichlorobenzene	EPA 601	10/24/95	< 0.50	ug/L											

Conc. = Concentration



October 26, 1995 Sample Log 13167

From: Joe Sio Chevrolet (Project # 12104)

Date Sampled: 10/17/95

Matrix: Water

Date Received: 10/18/95

Units (mg/L)

#### Total Lead by GFAA by SW-848 Method 7421

WESTID	Sample ID	Result	MRL	Date Digested	Date Analyzed
13167-03	MW01 101795	9.0088	0.003	10/23/95	10/25/95
13167-04	MW02 101785	0.028	0.003	10/23/95	10/25/95

MRL = Method Reporting Limit

Michelle L. Anderson Inorganica Supervisor



October 26, 1995

#### Metais QC Report for Sample Log 13167

From: Joe Sio Chevrolet (Project # 12104)

Matrix: Water

Sample Spiked for MS/MSD: 13167-05

Units: (mg/L)

#### **Method Blank**

Analyte	Result	MRL	EPA Method	Date Digested	Date Analyzed
Lead (Pb)	<0.003	0.003	7421	10/23/95	10/25/95

MRL = Method Reporting Limit

#### Laboratory Control Sample (LCS)

Analyte	% Recovery	EPA Method	Date Digested	Date Analyzed
Lead (Pb)	101	7421	10/23/95	10/25/95

LCS Limits are 85 - 115%.

#### **Matrix Spikes**

Analyte	MS % Recov	MSD % Recov	RPD	EPA Method	Date Digested	Date Analyzed
Lead (Pb)	80	85	6	7421	10/23/95	10/25/95

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



October 28, 1995 Sample Log 13167-05

Sample: MW03 101795

From: Joe Sio Chevrolet (Project # 12104)

Matrix: Water

Date Sampled: 10/17/95 Date Received: 10/18/95

Units: (mg/L)

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

Result	MRL	EPA Method	Date Digested	Date Analyzed
<0.004	0 004	6010	10/23/95	10/25/95
<0.007	0.007	6010	10/23/95	10/25/95
<0.003	0.003	7421	10/23/95	10/25/95
<0.015	0.015	6010	10/23/95	10/25/95
<0.010	0.010	5010	10/23/95	10/25/95
	<0.004 <0.007 <0.003 <0.015	<0.004 0 004 <0.007 0.007 <0.003 0.003 <0.015 0.015	<0.004 0 004 6010 <0.007 0.007 6010 <0.003 0.003 7421 <0.015 0.015 6010	Result         MRL         EPA Method         Digested           <0.004

MRL = Method Reporting Limit

Michelle L. Anderson Inorganics Supervisor



October 26, 1995

#### Metals QC Report for Sample Log 13167

From: Joe Sio Chevrolet (Project # 12104)

Matrix: Water Linits: (mg/L)

#### **Method Blank**

Analyte	Result	MRL	EPA Method	Date Digested	Date Analyzed
Cadmium (Cd)	<0.004	0.004	6010	10/23/95	10/25/95
Chromium (Cr)	< 0.007	0.007	6010	10/23/95	10/25/95
Lead (Pb)	< 0.003	0.003	7421	10/23/95	10/25/95
Nickel (Ni)	< 0.015	0.015	6010	10/23/95	10/25/95
Zinc (Zn)	<0.010	0.010	6010	10/23/95	10/25/95

MRL = Method Reporting Limit

#### Laboratory Control Sample (LCS)

Analyte	% Recovery	EPA Method	Date Digested	Date Analyzed
Cadmium (Cd)	110	601Q	10/23/95	10/25/95
Chromium (Cr)	110	6010	10/23/95	10/25/95
Lead (Pb)	101	7421	10/23/95	10/25/95
Nickel (Ni)	103	8010	10/23/95	10/25/95
Zinc (Zn)	109	6010	10/23/95	10/25/95

LCS Limits are 85 - 115%.

Michelle L. Anderson Inorganics Supervisor



October 26, 1995

#### Metals QC Report for Sample Log 13167 (cont'd)

From: Joe Sio Chevrolet (Project # 12104)

Sample Spiked for MS/MSD: 13167-05 (ICP, GFAA)

#### **Matrix Spikes**

Analyte	MS % Recov	MSD % Recov	RPD	EPA Method	Date Digested	Date Analyzed
Cadmium (Cd)	116	112	4	6010	10/23/95	19/25/95
Chromium (Cr)		95	2	6010	10/23/95	10/25/95
Lead (Pb)	80	85	5	7421	10/23/95	10/25/95
Nickel (Ni)	95	92	3	6010	10/23/95	10/25/95
Zinc (Zn)	103	99	4	6010	10/23/95	10/25/95

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

Western Environment Science & Technology	el	1046 Davi	6 Oli 16, C	ve l A 9	Prive 5616	. Sui	te 3		FA. LA	X #: 5#::	916- 916-7 916-7	753-6	180			СН	ΙΑΙ	N-1	OF	-Cl	JST	OI	Υ	RE	CO	RC	) A	NE	) A	N.A	\L\	/SI	s R	EQ	UE	ST	
Project Manager:		Phone #:  510 - 420 - 7910  ANAL  PENJMENTALITY. FAX #:  570 - 658 - 7990  P.O.H: 57-297 Project Name:													AL'	ALYSIS REQUEST															T	AT					
Company/Addre	BS: PHILLI THE TVS	9 ENJ. M.O. 376 501	ma	Ø1	<u>.</u>	FA	X #: 570	) <u>.</u>	6	<del>37/</del>	10 - 79	90	·· <u></u>		6													W.E	.T. j.					T			€ 3
Project Number:		P.O.#: 57	79		Project Name:											HINGS HICE NONE NONE NONE NONE NONE NONE NONE NO															7					٤	Q (1 wk)
12764	5	P.O.H: 57-797 Project Name:  55-691 See Sie Chevreuct 88 III 88																2	진축																		
Project Location:						Su	910le		Series Series		Ü	7			oline (50)	(C) (S)	5520 B/E	FR (5520	2552y			sticides				125		Jent Me	100 AS							127110	VICE (2)
Sample		pling	1	on	tair			Me		od ved		Mat	rix		# Gas	BOYINGE	(Prease)	& Grease	Fish Bio	20	8 8 8	9080 - Per	9080 P.C.	097	2			rity Polic	DIAZIE	Zs. N	125					HVICE (	S SER
מו	DATE	TIME	¥0∧	SLEEVE	1LGLASS	31.00	ξ	HNOS	33	Š,	WATER	SOIL		BTEX (SR2/Br24)	BTEXTP	TPH as DieselvOil (8015)	Total OI & Grease (5520 B/E,F)	Total Oil	96 · Hour	EPA 601A	EPA 615/6150	EPA 608/8080 - Pesticides	EPA 608/8083 PCBs	EPA 624/8240	EPA 625/8270	Original Conserve Continuing	CAM 17 Metals	EPA - Priority Poliutant Metals	LEAD(74207421/239.2)	Cd. Cr. Pb, Zn, Ni	Total					SEST SE	STANDARD SERVICE (28 hr) or (1 wk)
PS0110179	101795	T	X				X	,	X	1	X				X											-	$\dagger$	1	-		<u> </u>		-	-	H		
1801/01795		1745	X				M		X	_					X																				П	T	XXXX
MW01 101795		1030	X		_[2	1	X	X.	X.		$\bot$ X				X												Τ				X					7	X
mw02 10179		1230	X				X	丌	X		IX				X					X	L										X		7	$\Box$		7	X
1003b1795		1130	X			1	X	XI.	<u>X</u>		X				X											T	T			X	K				$\sqcap$		X
AN01/0/715	<u>!</u>	1035	X	-		-	X	_	X.	+	×		1		×				-	-				1	1	1							1				X
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