



February 3, 1994

Ms. Carrie Blackman
Castro Valley Autohaus
20697 Park Way
Castro Valley, CA 94546

**Subject: Fourth Quarter 1993 Groundwater Monitoring Report
Castro Valley Autohaus
20697 Park Way, Castro Valley, California
CET Project No. 3528**

Dear Ms. Blackman:

This summary report presents the results of groundwater monitoring activities conducted by CET Environmental Services, Inc. (CET) during the fourth quarter 1993, at the subject property. Monitoring activities are performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA) as outlined in their August 12, 1991 letter, and in accordance with the requirements of the San Francisco Bay Region of the Regional Water Quality Control Board (RWQCB). The data presented below includes groundwater level and elevation measurements, groundwater sample analytical results, and planned activities. A site location map is presented on Plate 1, Attachment A.

PROJECT HISTORY

Underground Storage Tank (UST) Removal

The following summary of the project history is based on CET's review of the Aqua Terra Technologies, Inc. (ATT) project file for Castro Valley Autohaus (CVA). The summarized project history is also based on conversations with Mr. Jim Craig of CVA, and Mr. Scott Seery of ACHCSA, both of whom were present during the tank removals. Two 1,000 gallon waste oil underground storage tanks (USTs) were reportedly removed from the subject property during November 1989. The removal of the tanks was performed in accordance with the September 25, 1989 ACHCSA letter to Castro Valley Autohaus.

On February 13, 1991 a groundwater monitoring well was installed, within ten feet of the UST excavation boundaries, by D&D Management Consultants, Inc.. Monitoring well installation and associated soil sample collection and analysis were reportedly performed in accordance with the ACHCSA letter of December 14, 1990. The groundwater monitoring well was developed on May 17, 1991.

The soils removed during tank excavation activities were stockpiled in the asphalt parking area at the facility, and covered with plastic sheeting. On October 18, 1991, the stockpiled

ALCO
HAZMAT
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CET Environmental
Services, Inc.

5845 Doyle Street, Suite 104
Emeryville, California 94608
Telephone: (510) 652-7001
Fax: (510) 652-7002

reviewed 2-18-94
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soils reportedly were transported to Vasco Road Sanitary Landfill in Livermore, California, for disposal.

GROUNDWATER MONITORING SUMMARY

Groundwater Elevation Monitoring

On November 1, 1993, CET personnel measured the groundwater level in site monitoring well MW1 (shown on Plate 2, Attachment A). The groundwater elevation was calculated to be 152.75 feet above mean sea level (msl). Historic groundwater elevation data are summarized in Table 1, Attachment B.

Groundwater Sample Collection

One November 1, 1993, CET personnel collected one groundwater sample from monitoring well MW1. The sample was transported in accordance with CET chain of custody protocol to a California Department of Health Services (DHS) certified laboratory. A copy of the groundwater sample collection record is presented in Attachment C.

Groundwater Sample Analysis

The sample was analyzed for volatile organic compounds (VOCs) in accordance with U.S. Environmental Protection Agency (EPA) Test Method 624.

Groundwater Sample Analytical Results

Historical groundwater analytical data are summarized in Table 2, Attachment B. Copies of the signed laboratory analytical report and chain of custody record are presented in Attachment C. No EPA 624 analytes were detected at or above the test method detection levels.

PLANNED ACTIVITIES

The following activities will be performed, In accordance with the August 12, 1991 ACHCSA letter, during the first quarter 1994:

- o Groundwater level measurements will be collected from the site monitoring well



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- o Groundwater samples will be collected from the site monitoring well, samples will be analyzed for VOCs using EPA Method No. 624.
- o A summary report will be submitted to the ACHCSA.


The quarterly summary report will include details and results of work performed during the designated quarter, the status of groundwater contamination characterization, an interpretation of analytical results, and recommendations for additional investigative work or remediation, if warranted.

This report is subject to the limitations and uncertainties presented in Attachment D.

Please contact us if you have any questions or comments regarding this report.

Sincerely,

CET ENVIRONMENTAL SERVICES, INC.


Benjamin Berman
Staff Scientist


Terrance E. Carter
Senior Environmental Engineer
Project Manager

BB/TEC:kaa

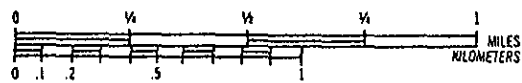
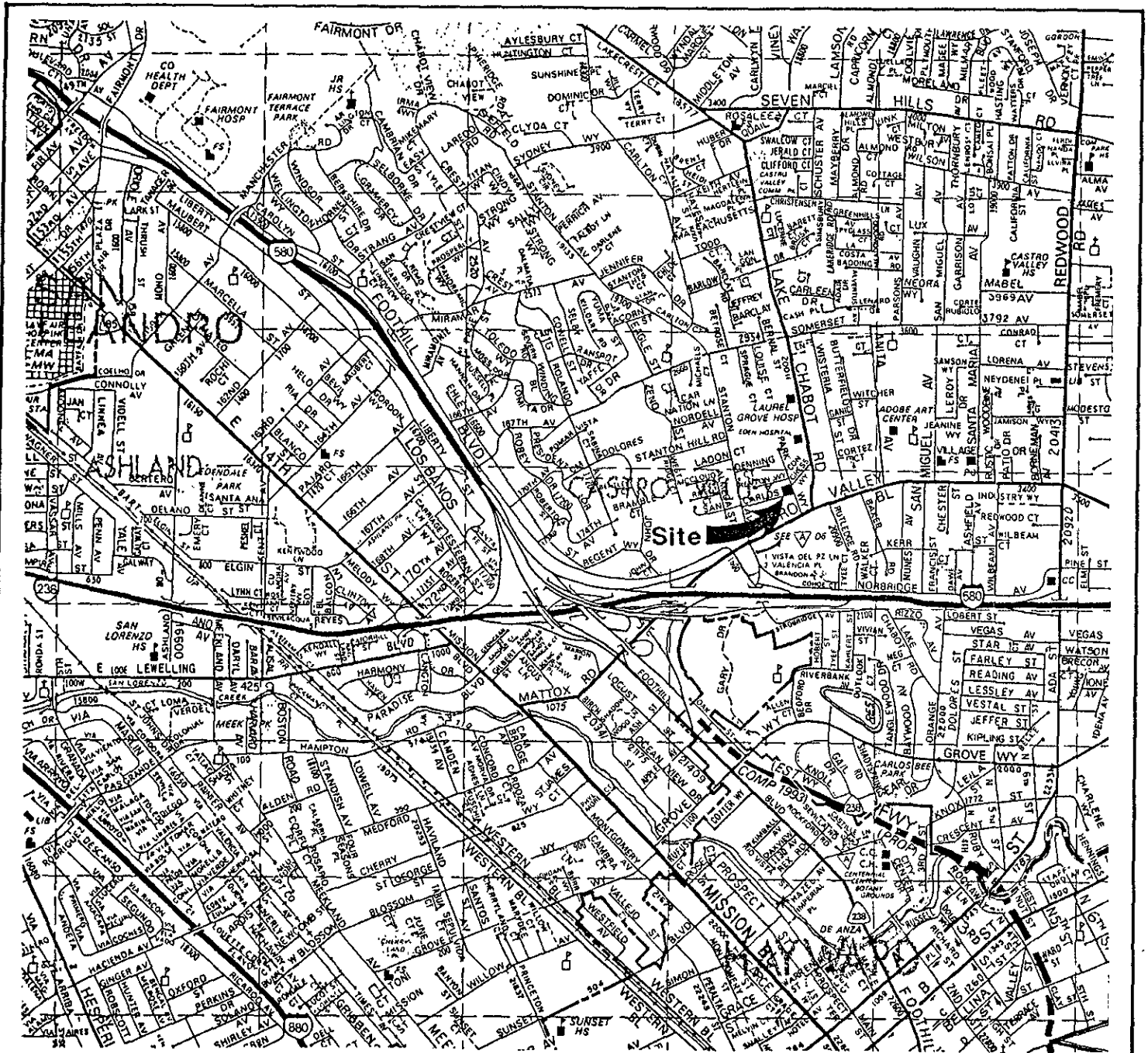
Attachments

cc: Scott Seery, ACHCSA
Lester Feldman, RWQCB



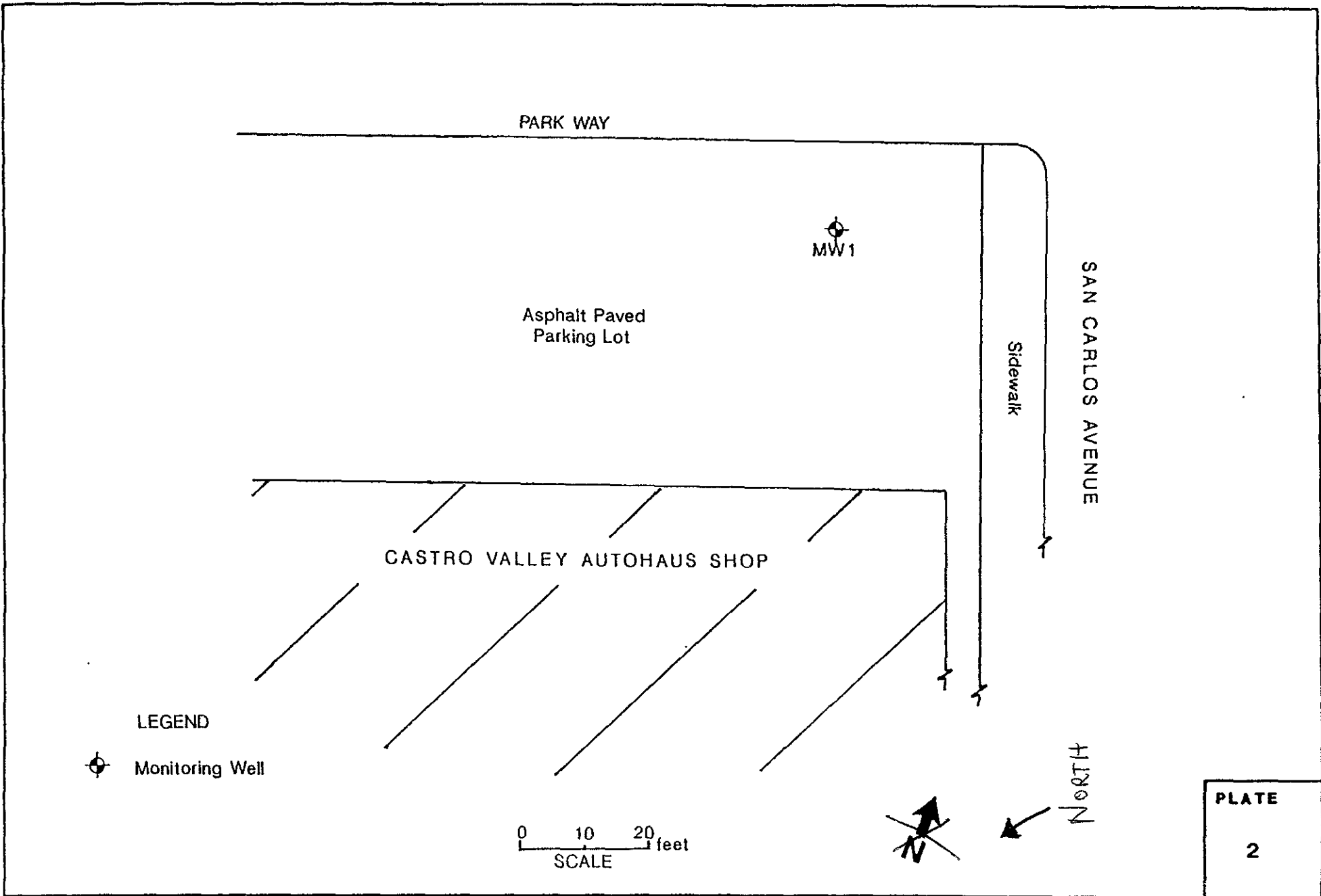
ATTACHMENT A

Plates



Site Location	
20697 Park Way, Castro Valley, CA	
Castro Valley Autohaus	PLATE
JOB NUMBER	DATE
3528	10/93
	1

CET Environmental Services, Inc.



**CET Environmental
Services, Inc.**

Site Plan

20697 Park Way, Castro Valley, CA

Castro Valley Autohaus

JOB NUMBER

3528

DATE

10/93



ATTACHMENT B

Tables



Table 1

**Groundwater Elevation Data Summary
Castro Valley Autohaus, Castro Valley, California**

Well No.	TOC^a Elevation	Date Measured	Groundwater Level^b	Groundwater Elevation^c
MW1	160.50 ^d	08/21/91	√8.11	152.39
		06/09/93	√7.35	153.15
		08/25/93	7.42	153.08
		11/01/93	7.75	152.75

a. TOC = top of well casing [measured in feet above mean-sea-level (msl)]

b. Groundwater level is measured in feet below top of well casing.

c. Measured in feet above msl.

d. Surveyed to elevation above msl on 10/04/91 by a California licensed surveyor.



Table 2

Groundwater Sample Chemical Data Summary
Castro Valley Autohaus, Castro Valley, California

Well No.	Date Sampled	VOCs Detected	VOC Concentration ($\mu\text{g/L}^d$)
MW1	05/23/91	1,1-DCA ^a	1.3 ^b
	08/21/91	----	<2.0 ^c
	06/09/93	----	<0.5 ^c
	08/25/93	----	<0.5 ^c
	11/01/93	----	<0.5 ^c

- a. 1,1-DCA = 1,1 - Dichloroethane
b. Sample collected by IT Corporation, Martinez, California and analyzed by IT Analytical Services of San Jose, CA. In addition, 33 $\mu\text{g/L}$ acetone was detected in the same groundwater sample.
c. VOCs not detected at or above the method detection limit.
d. $\mu\text{g/L}$ = micrograms per liter, equal to parts per billion.



ATTACHMENT C

**Laboratory Analytical Report
Chain of Custody Record
Sample Collection Record**

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 11 - 1 - 93 Sample I.D.: MW1 Job No.: 3528-209

Site Location: Castro Valley Autohaus

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain)/ _____

W.L. (1/100'): 7.75 Time : 16:05 B.O.W. (1/2'): 12.5

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 3 gallons

Purging Method: Disposable Bailer; Teflon Bailer;
 Other/ _____

Time Start Purging (24 hr): 16:07, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: none, Color: none

Time Stop Purging (24 hr): 16:12, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: very slight, Color: lt. brn.

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>16:09</u>	<u>23</u>	<u>7.29</u>	<u>1550</u>	<u>1</u>	<u>-</u>
<u>16:10</u>	<u>23</u>	<u>7.32</u>	<u>1580</u>	<u>2</u>	<u>-</u>
<u>16:11</u>	<u>23</u>	<u>7.35</u>	<u>1590</u>	<u>3</u>	<u>-</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>

Sample Collection Time (24 hr): 16:15

Notes: _____

Collected By (signature): J. Long

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

November 10, 1993

ChromaLab File#: 9311055

CET ENVIRONMENTAL SERVICES, INC

Atten: Terry Carter

Project: CASTRO VALLEY AUTOHAUS

Project#: 3528-209

Submitted: November 3, 1993

re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: MW1

Matrix: WATER

Lab #: 35496-1485 Sampled: November 1, 1993 Analyzed: November 9, 1993

Method: EPA 624

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	5	N.D.	--
BENZENE	N.D.	2	N.D.	--
BROMODICHLOROMETHANE	N.D.	2	N.D.	--
BROMOFORM	N.D.	2	N.D.	--
BROMOMETHANE	N.D.	2	N.D.	--
METHYL ETHYL KETONE	N.D.	2	N.D.	--
CARBON TETRACHLORIDE	N.D.	2	N.D.	--
CHLOROBENZENE	N.D.	2	N.D.	--
CHLOROETHANE	N.D.	2	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	2	N.D.	--
CHLOROFORM	N.D.	2	N.D.	--
CHLOROMETHANE	N.D.	2	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	2	N.D.	--
1,1-DICHLOROETHANE	N.D.	2	N.D.	--
1,2-DICHLOROETHANE	N.D.	2	N.D.	--
1,1-DICHLOROETHENE	N.D.	2	N.D.	77
CIS-1,2-DICHLOROETHENE	N.D.	2	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	2	N.D.	--
1,2-DICHLOROPROPANE	N.D.	2	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	2	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	2	N.D.	--
ETHYLBENZENE	N.D.	2	N.D.	--
2-HEXANONE	N.D.	2	N.D.	--
METHYLENE CHLORIDE	N.D.	5	N.D.	--
METHYL ISOBUTYL KETONE	N.D.	2	N.D.	--
STYRENE	N.D.	2	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	2	N.D.	101
TETRACHLOROETHENE	N.D.	2	N.D.	94
TOLUENE	N.D.	2	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	2	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	2	N.D.	--
TRICHLOROETHENE	N.D.	2	N.D.	83
TRICHLOROFLUOROMETHANE	N.D.	2	N.D.	--
VINYL ACETATE	N.D.	2	N.D.	--
VINYL CHLORIDE	N.D.	2	N.D.	--
XYLENES	N.D.	2	N.D.	--

ChromaLab, Inc.



David Wintergrass
Chemist



Eric Tam
Laboratory Director

CHROMALAB, INC.

DOHS 1094

SUBM #: 9311055
 CLIENT: CET
 2 DUE: 11/10/93
 REF: 13986

Order # 13986
 55/35496
Chain of Custody

DATE 11/2/93 PAGE 1 OF 1

PROJ MGR					ANALYSIS REPORT															NUMBER OF CONTAINERS																																		
COMPANY					TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3530, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD		EXTRACTION (TCLP, STLC)																																	
ADDRESS					SAMPLERS (SIGNATURE)					(PHONE NO)					SAMPLE ID.					DATE					TIME					MATRIX					PRESERV.																			
Terry Carter					CET Environmental					5845 Doyle St, Ste 104 Emeryville, CA 94608					J. Long										MW1					11/1/93					16:15					H ₂ O HCl					X					4				
PROJECT NAME					SAMPLE RECEIPT					RELINQUISHED BY 1					RELINQUISHED BY 2					RELINQUISHED BY 3																																		
Castro Valley Autohaus					TOTAL NO OF CONTAINERS: 4					Jaysen Long																																												
PROJECT NUMBER: 3528-209					HEAD SPACE					(SIGNATURE)					(SIGNATURE)					(SIGNATURE)																																		
P.O. #					REC'D GOOD CONDITION/COLD					(PRINTED NAME)					(PRINTED NAME)					(PRINTED NAME)																																		
TAT					CONFORMS TO RECORD					CET Environmental					(COMPANY)					(COMPANY)					(COMPANY)																													
STANDARD 5-DAY					24 48 72 OTHER					RECEIVED BY 1					RECEIVED BY 2					RECEIVED BY (LABORATORY) 3																																		
SPECIAL INSTRUCTIONS/COMMENTS:																				B. Macrow 11/3/93																																		
																				Chromalab																																		
																				(LAB)																																		



ATTACHMENT D
Limitations and Uncertainties



LIMITATIONS AND UNCERTAINTY

This report was prepared in general accordance with the accepted standard of practice which exists in northern California at the time the investigation was conducted and within the scope of services outlined in our proposal. It should be recognized that the definition and evaluation of surface and subsurface environmental conditions is a difficult and inexact science. Judgements leading to conclusions and recommendations generally are made with an incomplete knowledge of the conditions present. It is possible that variations in the soil and/or groundwater conditions could exist beyond the points explored for this investigation. Also changes in groundwater conditions could exist beyond the points explored for this investigation. Also changes in groundwater conditions could occur sometime in the future due to variations in tides, rainfall, temperature, local or regional water use or other factors. If the client wishes to reduce the uncertainty beyond the level associated with this study, CET Environmental Services, Inc. should be notified for additional consultation.

The discussion and recommendations presented in this report are based on: 1) information and data provided by third party consultants, 2) the exploratory test borings drilled at the site, 3) the observations of field personnel, 4) the results of laboratory analysis by a California Department of Health Services (DHS) accredited laboratory, and 5) interpretations of federal, state, and local regulations and/or ordinances.

Chemical analytical data included in this report have been obtained from state certified laboratories. The analytical methods employed by the laboratories were in accordance with procedures suggested by the U. S. Environmental Protection Agency and State of California. CET Environmental Services, Inc. is not responsible for laboratory errors in procedures or reporting.

CET has conducted this investigation in a manner consistent with the level of care and skill ordinarily exercised by members of the environmental consulting profession currently practicing under similar conditions in northern California. CET has prepared this report for the client's (and assigned parties) exclusive use for this particular project. No other warranties, expressed or implied, as to the professional advice provided are made.