ATT

October 7, 1991

91 OCT -9 AM11:38

Mr. Jim Craig
Castro Valley Autohaus
20697 Park Way
Castro Valley, California 94546

Subject: Results of Sampling Activities - Soil Stockpile
Castro Valley Autohaus
20697 Park Way
Castro Valley, California
(Project # 919289)

Dear Mr. Craig:

Aqua Terra Technologies
Consulting Engineers
& Scientists

2950 Buskirk Avenue
Suite 120
Walnut Creek, CA
94596
415 934-4884
FAX 934-0418

This letter presents the results stockpiled soil sampling activities conducted by Aqua Terra Technologies, Inc. (ATT) at the subject property. Included herein is a discussion of the project background, sample collection activities, analytical results, conclusions, and recommendations.

Background

ATT understands that in November 1989, approximately 12 cubic yards of soil was excavated during the removal of an underground waste oil storage tank at the subject property in 1989. Following excavation, the soil was stockpiled in the asphalt parking area at the facility, and covered with plastic sheeting. Mr. Scott Seery of the Alameda County Health Care Services Agency (ACHCSA) requested in an August 12, 1991 letter (Attachment A), that the soils be characterized and properly disposed of.

ATT prepared a sampling plan to characterize the stockpiled soil for disposal at a local landfill. The sampling plan was prepared to address volatile and non volatile organic compounds (VOCs) which may have been associated with the former underground waste oil storage tank. ATT confirmed the scope of the sampling plan on August 15, 1991 in a telephone conversation with Mr. Seery.

Soil Stockpile Sampling Activities

ATT collected composite soil samples on August 21 and September 20, 1991 from the subject property's stockpiled soil. The composite samples were collected by removing approximately 12 to 16 inches of surface soil from the stockpile and collecting a sample of the freshly exposed soil. This procedure

was repeated at three different locations within the stockpile (Plate 1, Attachment B). Each composite soil sample was placed in single one-gallon Zip-lock plastic bags. The soil from the three locations was gently mixed within the Zip-lock bag, and then firmly packed into a pre-cleaned two inch brass tube. The ends of the tube were covered with teflon sheeting and capped with plastic end caps. The caps were sealed with adhesive tape and the samples were labeled and placed in a cooler containing ice for transport to a DHS certified laboratory for analysis. The August composite soil sample was analyzed for total extractable petroleum hydrocarbons (TEPH) which included total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, TPH as kerosene, and motor oil by EPA Method 8015, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020. The September composite sample was analyzed for volatile halocarbons in accordance with EPA Method 8010.

Lead analysis was not performed because previous soil sampling activities conducted by others demonstrated that site soils do not contain elevated levels of lead. The results of previous analyses for lead are included in Attachment C. The ACHCSA concurred with this finding in the August 12, 1991 letter (Attachment A).

Soil Stockpile Analytical Results

The laboratory analysis for ATT's soil sampling activities are in Attachment D. Copies of the chain of custody documentation and sample collection records are presented in Attachment D.

The soil sample collected from the stockpile did not contain TPH as gasoline, TPH as diesel, TPH as kerosene, BTEX, or volatile halocarbons above analytical detection limits. Motor oil was detected in the sample at a concentration of 96 mg/Kg.

Conclusions

Results of the stockpile sampling activities demonstrate that the soils contain less than 100 mg/Kg of petroleum hydrocarbons. The San Francisco Bay Region of the California Regional Water Quality Control Board (RWQCB) established guidelines for disposal of soils excavated during underground storage tank removal in a memorandum to local implementing agencies dated

January 11, 1990. The RWQCB guideline states that soils containing less than 100 mg/Kg of TPH should be disposed of at Class III landfills. The soil stockpiled at the site satisfies the above criteria and is, therefore, suitable for disposal at a local Class III landfill.

Recommendations

ATT has contacted Mr. John Lydick at the Browning and Ferris Eastern Alameda County Landfill facility in Livermore, California to obtain a disposal request application. Mr. Lydick stated that the landfill evaluates this type of request on a case-by-case basis, and that soils which meet the landfill criteria are routinely accepted at the landfill at a disposal cost of approximately $19.00 per cubic yard. ATT recommends that the soil be disposed of at the Eastern Alameda County Landfill.

Please feel free to contact me if you have any questions regarding matters discussed herein.

Sincerely,

AQUA TERRA TECHNOLOGIES, INC.

Bradley J. Bennett
Project Manager

BJB:mp

attachments

cc: W. Motzer, Ph.D., ATT
S. Seery, ACHCSA
J. Lydick, BFI
L. Feldman, RWQCB

ATTACHMENT A

August 12, 1991 ACHCSA Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

August 12, 1991

Mr. Robert Blackman
Castro Valley Autohaus
20697 Park Way
Castro Valley, CA 94546

RE: PRELIMINARY SITE ASSESSMENT

Dear Mr. Blackman:

This Department is in receipt and has completed review of the May 22, 1991 D & D Management Consultants, Inc. (D & D) summary documenting the installation of one (1) monitoring well and soil sample analysis, and the June 20, 1991 International Technology Corporation (IT) water sampling and analysis report, as submitted under Castro Valley Autohaus cover dated July 1, 1991.

The two water samples analyzed, one collected near the top of the water column in the completed well, the other near the bottom, both identify the presence of the compound 1,1-dichloroethane in similar concentrations (1.3 and 1.2 ug/l [ppb]); a soil sample collected at 5 feet below grade during boring advancement identified the presence of acetone at a concentration of 0.033 mg/kg (ppm). Neither total lead nor organic lead appear to be of concern.

At this time, you are required to adhere to the following sampling and reporting schedule:

1) The well is to be surveyed vertically and horizontally to an established benchmark to the accuracy of 0.01 foot, and values converted to elevations above mean sea level (MSL). [Note: this requirement has been discussed previously in correspondence from this Department dated August 6, 1990, and is a mandatory requirement of the RWQCB; neither of the the referenced D & D and IT reports indicate that the well has been surveyed.]

   Water level measurements are to be collected quarterly for the life of this project;

2) Water samples are to be collected quarterly, and are to be analyzed for the presence of chlorinated compounds (EPA Method 601 or 624) and volatile organics (EPA Method 624 or 602). It is recommended that analysis method 624 be used to meet this requirement as total analysis costs will be reduced;

3) Summary reports are to be submitted to this Department and the RWQCB quarterly for the duration of this project until eligible for final "sign-off" by the RWQCB. Such reports are due the first day of the second month of each subsequent quarter (i.e., November 1, February 1, May 1, and August 1). Hence, the next report is due for submittal November 1, 1991 and shall document sampling/monitoring activities occurring at your site during the 3rd quarter of 1991 (July-Sept.).

   The referenced quarterly reports are to include, among other elements, the following information where appropriate:

   - Details and results of all work performed during the designated period of time: records of field observations and data, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed, tabulations of free product thicknesses and dissolved fractions, etc.
   - Status of ground water contamination characterization
   - Interpretation of results: water level contour maps showing gradients, free and dissolved product plume definition maps for each target component, geologic cross sections, etc.
   - Recommendations or plans for additional investigative work or remediation

Please be advised that all future reports must be submitted under seal of a California-registered professional (i.e., RG, CEG, or RCE), in accordance with the California Business and Professions Code. All work performed at your site is to be under the direction of this appropriately registered individual; however, the actual work may be performed by a subordinate employee, but such work must be reviewed and the final product signed by the registered person.

Finally, this Department has been assured in the past that the stockpiled soil was to be sampled and analyzed concurrent with the installation and sampling of the monitoring well, and that the disposal/treatment of said soil was to follow once the level of contamination was known. No report documenting this sampling has been received by this office. Further, as of last month, this soil was still stockpiled on-site. Please bear in mind that this soil has been stockpiled on your site since November 1989.

Section 66471, Title 22, California Code of Regulations (CCR), requires that producers of waste determine whether such waste is hazardous by California standards. You are presently in violation of the cited section. Further, should the material prove to be a hazardous waste, you are also in violation of 22CCR Section 66508 for storage of such waste for over 90 days.

As a result of these facts, you are directed to sample and analyze this stockpiled soil for the range of known possible contaminants (i.e., chlorinated and volatile organic compounds) following appropriate protocol, and submit a report to this Department within 30 days, **or by September 12, 1991.** This report is to include potential disposal and/or treatment options, as appropriate.

Please call me at 415/271-4320 should you have any questions.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Lester Feldman, RWQCB
Howard Hatayama, DHS
Bob Bohman, Castro Valley Fire Department
Louis Richardson
Jim Craig
files

ATTACHMENT B

Plate 1

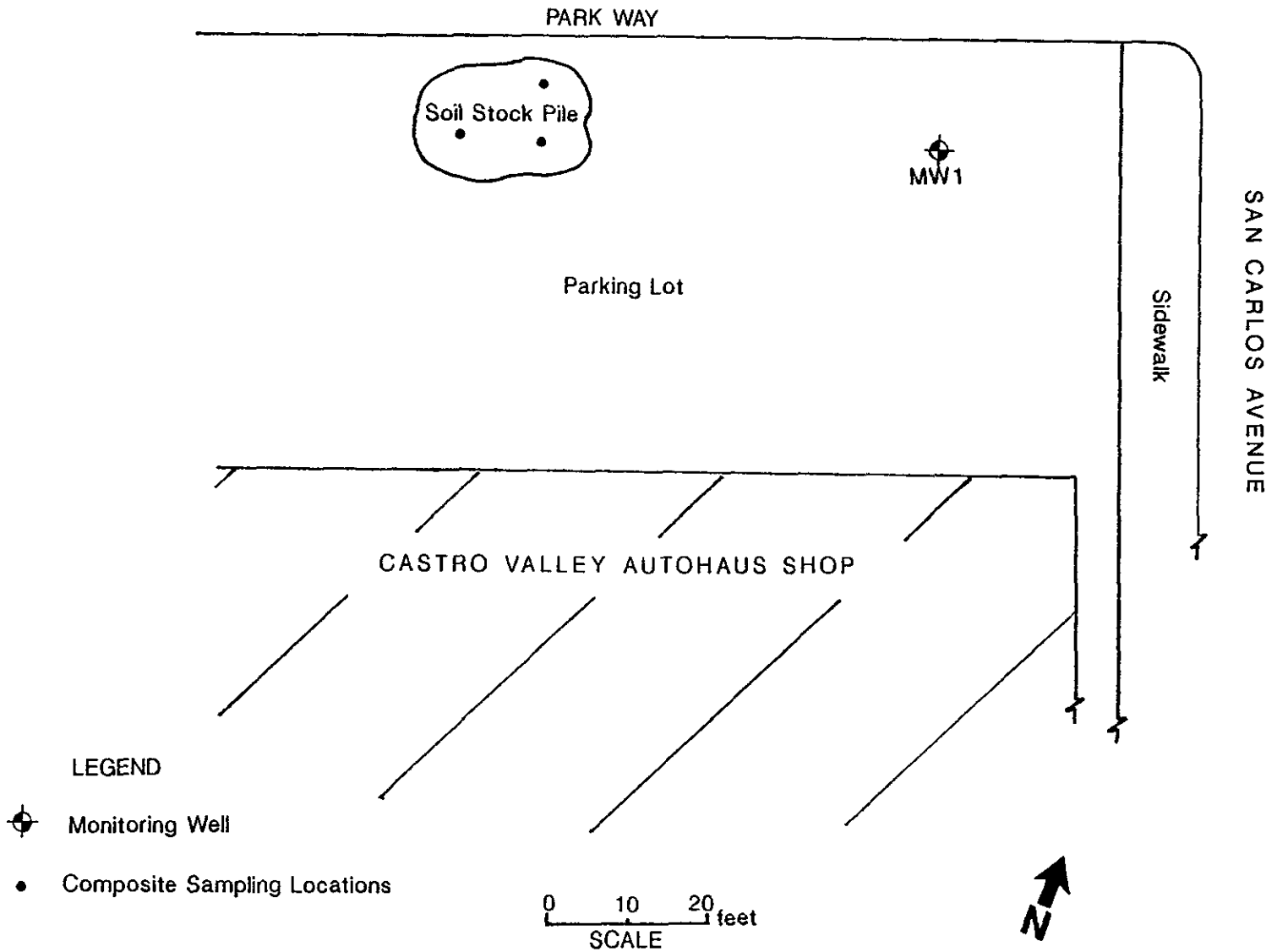

PLATE 1

ATT Aqua Terra Technologies Consulting Engineers & Scientists	Site Map	Castro Valley Autohaus JOB NUMBER 919289 DATE 10/91

ATTACHMENT C

Previous Analytical Results - Metals

Date: December 27, 1989
Client Project ID: Castro Valley
Auto Haus, 20697 Parkway

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order Number: S9-11-366

Client Sample ID: 7' East side of Excav.

Sample Date: 11/29/89
Lab Sample ID: S9-11-366-03
Receipt Condition: Cool

Results - Milligrams per Kilogram

Parameter	E.P.A. Method	Detection Limit	Detected
Cadmium	6010	0.25	None
Chromium	6010	0.50	42.
Lead	6010	1.5	53.
Zinc	6010	0.50	67.

ATTACHMENT D

ATT Sampling Documentation and Analytical Results

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

August 29, 1991 ChromaLab File No.: 0891207

AQUA TERRA TECHNOLOGIES, INC.

Attn: Brad Bennett

RE: One soil sample for Gasoline/BTEX analysis

Date Sampled: August 21, 1991 Date Submitted: August 22,1991
Date Extracted: August 28, 1991 Date Analyzed: August 28, 1991

RESULTS:

Sample I.D.	Gasoline (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl Benzene (µg/kg)	Total Xylenes (µg/kg)
SP1	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	87.6%	87.4%	86.6%	87.9%	87.7%
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/ 8015	8020	8020	8020	8020

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

September 3, 1991 ChromaLab File No.: 0891207

AQUA TERRA TECHNOLOGIES, INC.

Attn: Bradd Bennett

RE: One soil sample for TEPH analysis

Date Sampled: August 21, 1991 Date Submitted: August 22,1991
Date Extracted: August 30, 1991 Date Analyzed: August 30, 1991

RESULTS:

Sample I.D.	Kerosene (mg/kg)	Diesel (mg/kg)	Motor Oil (mg/kg)
SP1	N.D.	N.D.	96
BLANK	N.D.	N.D.	N.D.
SPIKED RECOVERY	----	101.1%	----
DETECTION LIMIT	1.0	1.0	10
METHOD OF ANALYSIS	3550/8015	3550/8015	3550/8015

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

September 26, 1991 ChromaLab File # 0991167

Client: Aqua Terra Technologies
Attn: Brad Bennett
Date Sampled: Sept. 20, 1991 Date Submitted: Sept. 23, 1991
Date Analyzed: Sept. 26, 1991

Project Number: 919289
Sample I.D.: SS-2
Method of Analysis: 8010 Detection Limit: 5.0 µg/kg

COMPOUND NAME	µg/kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	92.3% 91.5%
1,1-DICHLOROETHENE	N.D.	---
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	95.2% 93.6%
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	---
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	93.1% 91.1%
TETRACHLOROETHENE	N.D.	---
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	---
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	94.8% 90.5%

ChromaLab, Inc.

David Duong
Senior Chemist

Eric Tam
Lab Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

Aqua Terra Technologies, Inc.
2950 Buskirk Avenue, Ste. 120
Walnut Creek, CA 94596
Tel. (415) 934-4884
Fax. (415) 934-0418

ATT

CHAIN OF SAMPLE CUSTODY RECORD

(original document, please return)

Sampled By: RICHARD BRUSH
Date Sampled: 8/21/91
Signature:
ATT Job #:
Lab Name: CHROMALAB
Results To Be Sent To: BRAD BENNETT
Contact:
Results Needed By: 5 DAY TURN AROUND
Phone #:
Fax Results ASAP ☐
Lab Job #:

Sample Collection				Sample Preservation				Sample Containers				Analysis/EPA Method No.						
Sample I.D.	Time (24 hr)	Matrix (e.g. Water, Soil)	Number of Containers	Ice	HCL	Dry Ice		2" Brass Tube	40 mL Glass VOA			TPH-G	BTEX	TEPH	8240			Remarks
SP1	15:25	SOIL	1	X				X				X	X	X				
MW1	15:55	WATER	3	X					X						X			
FB	15:39	"	"	X					X						X			

CHROMALAB FILE # 891207
ORDER # 3253

Notes:
SP1 IS A COMPOSITE SOIL SAMPLE, COMPOSITE WAS DONE IN THE FIELD. ALL SAMPLES KEPT ON ICED COOLER UNTIL REACHING THE LAB

Relinquished by/ Company Affiliation	Date	Time	Received by: Company Affiliation	Date	Time
	8-22-91	11:45		8-22-91	11:45

Aqua Terra Technologies, Inc.
2950 Buskirk Avenue, Ste. 120
Walnut Creek, CA 94596
Tel. (415) 934-4884
Fax. (415) 934-0418

CHAIN OF SAMPLE CUSTC

(original document, plea

CHROMALAB FILE # 991167
ORDER # 3545

ATT

1 of 1

Sampled By: RICHARD BRUSH
Date Sampled: 9-20-91

Signature:
ATT Job #: 919289

Lab Name: CHROMALAB INC.

Results To Be Sent To: BRAD BENNETT
Contact:

Results Needed By: 5 DAY TURN AROUND
Phone #: (415) 831-1788

Fax Results ASAP ☐
Lab Job #:

Sample Collection				Sample Preservation				Sample Containers				Analysis/EPA Method No.						
Sample I.D.	Time (24 hr)	Matrix (e.g. Water, Soil)	Number of Containers	Ice	HCL	Dry Ice		6" Brass Tube				8010						Remarks
SS2	13:35	SOIL	1	X				1				X						

Notes: SAMPLE IS A COMPSITE SAMPLE AND HAS BEEN KEPT IN AN ICED COOLER UNTIL REACHING THE LAB

Relinquished by/ Company Affiliation	Date	Time	Received by: Company Affiliation	Date	Time
	9-23-91				
				9-23	4.30

ATT

SAMPLE COLLECTION RECORD - SOIL

Date: 8-21-91, Job No.: 919289 Page 1 of 1

Site Location: CASTRO VALLEY AUTOHAUS

Sample Location Sketch/Site Plan Attached ?: (Y) / N

Samples from (check one): X Stockpile, ___Excavation Pit,

___Other (explain)/_____

Sampling Equipment: ___Hammer, X Spade-Shovel, ___Hand Sampler,

___Other (indicate)/_____

Equipment Cleaning: X Triple Rinsed, ____Steam Cleaned,

____Other (indicate)/_____

Sample Cont. Cleaning: X Pre-Cleaned, ____Steam Cleaned,

____Triple Rinsed, ____Other (indicate)/_____

Sample I.D.	No. of Cont.	No. of Dupli.	Lith-ology	Texture/ Pliabil.	Moisture Content	Type of Contain	Coll. Time
SP1	1	Ø	DRIED CLAY ROCKY	HARD BUT CRUMBLY	LOW	2" BRASS TUBE	15:23

Sample Preservation: X Iced Cooler, ____Other/_____

Notes:_____

Sampled By (signature): _____