

Report on

**ENVIRONMENTAL ACTION AND INVESTIGATION
4250 HORTON ST.
EMERYVILLE, CA. 94608**

Prepared for:

**45TH ARTISTS COOPERATIVE
1420 45TH STREET
EMERYVILLE, CA. 94608**

JUNE 1991

Prepared by:

**C. M Chambers and Associates
1507 Tulip Circle
Auburn, California 95603
(916) 888-6988**

E91-122



C.M. CHAMBERS AND ASSOCIATES

HAZMAT SPECIALISTS / T.E.A.M. CONCEPTS

June 12, 1991

L. J. TRACY
Ms. ~~A. Robin Orden~~
45th Street Artists Cooperative
1420 45th Street
Emeryville Ca. 94608

Project: Groundwater sampling at 4250 Horton St. Emeryville
(45th Street at Horton).

Dear Ms. ~~Orden~~^{TRACY}:

The following report contains the results of the sample taken from the monitoring well located at the above property and the results of our investigation of the building regarding prior use and potential release of hazardous materials at the site.

HISTORICAL DATA

The building was built in at least two stages. The brick faced portion of the building was built and first occupied in 1928. Shell Development Division of Shell Oil Company had control of the building.

Interviewing Thomas Young, Laboratory Technician for Shell Oil Co. from 1949 through 1972 when Shell Oil Co. moved their research facilities to Houston, Tx., provided the following information. Mr. Young's responsibilities included the set-up and running experiments at the facility. In the 23 years of employment with Shell Oil Co., Mr. Young was involved with and worked in all of the facilities operated by the chemists and researchers with the use of chemicals.

Most of the use of chemicals was limited to the multi-story buildings which are located north of the subject site. The use of the subject site was exclusively for the "instruments lab". There were no chemicals stored at this

building. The building was used to store and repair the varied instruments use by Shell Oil in their laboratories and in field use.

Mr. Young stated that small spills were not uncommon at the facility, but they were immediately cleaned up. Mr. Young said that they were not as concerned about the environment in those days, but an uncleaned spill would effect the experiments in progress.

Mr. Young also stated he was not aware of any underground tanks other than a 6,000 gallon that contained crude oil for the research.

PROJECT HISTORY

On November 2, 1988, an underground fuel storage tank was removed from the site. Contamination of soils was discovered at 470 ppm. A monitoring well was installed by Aqua Terra Technologies.

(see Appendix A for data)

CURRENT ACTIONS

On May 25, 1991, employees of C.M. Chambers and Assoc. removed one sample and one blank from the monitoring well.

Prior to sampling the monitoring well, the well was purged a minimum of three casing volumes of water and was retained in a EPA approved 55 gallon drum until the results of the samples were received.

Water samples were collected using a teflon bailer and monofilament line. Water samples were placed in one liter, amber glass containers, placed in a cooler with ice


packs to cool the samples to a maximum temperature of 4 degrees centigrade, and transported to a State-certified laboratory (Eureka) under chain of custody.


CONCLUSIONS

Based on the data received, C.M. Chambers and Associates has uncovered no evidence of groundwater contamination currently at the site, or of any releases of contamination in the building as a result of the use of the building by Shell Oil Co. from 1928 until 1972. There is no evidence of contamination from the occupants of the building from 1972 to present. There are no records of any storage or use of chemicals at the site other than the fuel oil contained in the underground tank identified above.

A copy of this report should be forwarded to Dennis Byrne of Alameda County Health Services Agency.

Submitted by:


Charles M. Chambers
President


Robert Joslin
Civil Engineer No. 17613

APPENDIX

A

HISTORICAL
DATA

45 th Street Artist Cooperative
1420 45 th Street
Emeryville, CA 94608
(415) 655-2880

DATE: May 14, 1991
TO: Paul Germain
FROM: Linda Tracy
RE: Information request 5-14-91

Please find attached the Aqua Terra Technologies report regarding the condition of the water and soil under H&H. Last month P.C. Solutions was given this information at your request. In researching the file on this issue I realized a final letter from the Alameda County Department of Environmental Health was not included in the file.

On April 17, 1991 I spoke with Dennis Byrne at the Alameda County Department of Environmental Health, Hazardous Materials Division. Mr. Byrne was unable to tell me if the issue was finalized with his department. Several days later I called Mr. Byrne at which time he was able to tell me the file had not been closed due to departmental work load and from what he knew at that time there was not a problem, just a matter of formality. Mr. Byrne will be meeting with the regional board May 15, 1991 (tomorrow) to complete the process. If the regional board is satisfied, the case will be closed 5-15-91 and the Co-op will then be issued a formal letter stating that fact. I will keep you posted.

November 3, 1989

Ms. A. Robin Orden
45th Street Artists Cooperative
1420 45th Street
Emeryville CA 94608

Subject: Results of Fourth Quarter Sampling
4250 Horton Street
Emeryville, CA

Dear Ms. Orden:

Aqua Terra Technologies, Inc. (ATT) is pleased to present a summary of quarterly groundwater monitoring activities at the subject property. This report provides a discussion of the project history, sample collection, analytical results, and conclusions.

Project History

An underground fuel storage tank was excavated and removed from the subject property on November 2, 1988. Following tank removal ATT collected a soil sample from the bottom of the excavation. Laboratory analytical results indicated that total petroleum hydrocarbons (TPH) as oil were present in the site soils. Analysis of this sample for TPH as gasoline and TPH as diesel did not reveal detectable levels of these compounds. A copy of the November 9, 1988 ATT underground storage tank closure report summarizing the closure activities and analytical results is provided in Attachment A. ATT installed a groundwater monitoring well at the subject property on November 30, 1988. A soil sample collected during well construction was analyzed and found not to contain total oil and grease (TOG) compounds above analytical detection limits. The monitoring well was developed and sampled by ATT on December 5, 1988. Analytical results of this sampling event did not reveal detectable levels of TOG in groundwater at the site.

Based on results obtained from soil and groundwater sampling activities at the site, ATT proposed a quarterly groundwater monitoring schedule to the Alameda County Health Care Services Agency (ACHCSA) in a report dated January 12, 1989. The ACHCSA agreed with the ATT proposal in a letter dated January 26, 1989. A copy of the correspondence from the ACHCSA is provided in Attachment B. Quarterly groundwater monitoring was initiated by ATT on February 1, 1989.

Aqua Terra Technologies
Consulting Engineers
& Scientists

200 Buskirk Avenue
Suite 120
Walnut Creek, CA
94596
415-934-4884

Ms. A. Robin Orden
45th Street Artists Cooperative
November 3, 1989
Page 2

Quarterly Groundwater Monitoring Results

Following each quarterly groundwater monitoring event, ATT has prepared a brief letter report which presents copies of laboratory analytical results, chain of custody documentation, and sample collection records. Copies of laboratory analytical results for the four quarterly groundwater monitoring events are provided in Attachment C. These results are summarized in Table 1, Attachment C. Copies of the chain of custody documentation and sample collection records are provided in Attachment D.

Analysis of the October 12, 1989 groundwater sample reveal that no detectable levels TPH as diesel, and toluene, ethylbenzene, or xylenes were encountered. Detectable levels of benzene and TPH as gasoline were reported for this sampling event at levels of 27 ug/L and 0.4 mg/L, respectively. Analysis for benzene, toluene, ethylbenzene, and xylene (BTEX), TPH as diesel, and TPH as gasoline have been performed in lieu of TOG in accordance with the agreement reached with Mr. Dennis Byrne of the ACHCSA. This agreement was reached during the July 18, 1989 telephone conversations between Mr. Byrne, and representatives of the 45th Street Artists Cooperative.

Discussion

The primary use of the former underground fuel storage tank was to fire boilers that once occupied the site. The fuel commonly associated with this type of application was a heavy bunker variety and did not contain either gasoline or associated aromatic compounds. Analysis of soil and groundwater samples failed to reveal presence of diesel or gasoline constituents until the October 12, 1989 sampling event. Therefore, ATT does not find evidence that the detectable levels of TPH as gasoline or benzene encountered during the October 12, 1989 sampling event are associated with past or present site activities. These compounds may be originating from an off site source. Although ATT has not conducted a formal survey of the area surrounding the subject property, several sites in the vicinity are currently being evaluated by the ACHCSA and the San Francisco Bay Region of the Regional Water Quality Control Board (RWQCB) with respect to toxic and fuel spills.

Ms. A. Robin Orden
45th Street Artists Cooperative
November 3, 1989
Page 3

Conclusions

Based on the data gathered to date, ATT finds no evidence to suggest that the site groundwater is being degraded due to the former underground fuel storage tank. The data and discussion herein justify terminating the quarterly groundwater monitoring events. The soil and groundwater data collected relative to the tank closure and subsequent monitoring indicate that no further action is warranted.

A copy of this report should be forwarded to the ACHCSA for review and final case resolution.

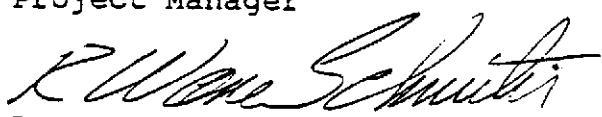
Please feel free to contact us at your earliest convenience if you have any questions regarding matters discussed herein.

Sincerely,

Aqua Terra Technologies, Inc.



Bradley J. Bennett
Project Manager



R. Wane Schmitter, Ph.D.
Civil Engineer No. 38735 (Expires 3/31/93)

BJB/RWS:pd
Attachments

ATTACHMENT A

Underground Storage Tank Closure Report

November 9, 1988

Ms. A. Robin Orden
45th Street Artists Cooperative
1420 45th Street
Emeryville, CA 94608

Subject: Closure Report for Underground Storage Tank
at 45th Street Artists Cooperative Property

Dear Ms. Orden:

This letter presents a discussion of activities conducted by Aqua Terra Technologies, Inc. (ATT) which consist of construction inspection and soil sampling services for the excavation of one existing underground fuel tank. These tasks were defined in our letter dated September 8, 1988.

On November 2, 1988, ATT's staff engineer oversaw the removal of the underground storage tank and collected one soil sample from the excavated pit. Balch Petroleum performed the services of excavation and removal of the tank. The Alameda County Health Department (ACHD) and Emeryville Fire Department were also onsite to inspect and approve the removal of the tank. The sample from the excavation was collected from the native underlying soils below the tank. The sample was collected using a hand-driven sampler.

The sample was retained in a two-by-six inch brass liner. The brass liner was thoroughly cleaned before use. The sample was appropriately labeled, sealed, and immediately iced for transportation to the analytical laboratory. The sample was analyzed for gasoline, diesel, and total oil and grease according to standard EPA protocol.

In order to comply with guidelines established by the Regional Water Quality Control Board (RWQCB) for closure of underground fuel tanks, underlying materials must contain less than 100 mg/Kg of petroleum products. Analytical results (Attachment A) indicated that although gasoline and diesel are not present, the level of total oil and grease exceeds this criteria.

Because the soil sample contained oil and grease above 100 ppm, RWQCB guidelines state that a soil and/or groundwater investigation is required. The following actions are required by the RWQCB and ACHD in order to comply with "RWQCB Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, June 1988."

Aqua Terra Technologies
Consulting Engineers
Scientists

500 Ashkirk Avenue
Suite 20
Emeryville, CA
94608
510-488-4884

Ms. A. Robin Orden
45th Street Artists Cooperative
November 9, 1988
Page 2

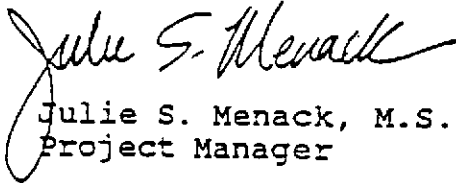
- o Identify the groundwater gradient from published or unpublished reports
- o Install one groundwater monitoring well on the downgradient side of the former underground tank, within 10 feet of the tank
- o Collect and analyze soil samples at five foot intervals from the well borehole and analyze for oil and grease
- o Collect groundwater samples from the well and analyze for total oil and grease on a quarterly basis and submit analytical results to the ACHD and RWQCB

The purpose of installing the monitoring well is to determine whether or not residual soil contamination observed in the tank excavation has impacted shallow groundwater. The site will be placed on the RWQCB list of confirmed petroleum releases. If oil and grease are not detected during the quarterly sampling, the site may then be removed from the RWQCB list.

If there are any questions regarding the closure and removal of the underground storage tank at the 45th Street Artists Cooperative, please do not hesitate to contact me.

Sincerely,

AQUA TERRA TECHNOLOGIES, INC.



Julie S. Menack, M.S., R.G.
Project Manager

JSM/dbh
Attachments



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9222 • FAX (415) 364-9233

Aqua Terra Technologies
2950 Buskirk Ave., Suite 120
Walnut Creek, CA 94596
Attn: Julie Menack

Date Sampled: 11/02/88
Date Received: 11/03/88
Date Extracted: 11/04/88
Date Reported: 11/04/88
Project: 1420 45th St.,
Emeryville

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

| <u>Sample Number</u> | <u>Sample Description</u> Soil | <u>Detection Limit</u> mg/kg | <u>Petroleum Oil</u> mg/kg |
|----------------------|-----------------------------------|---------------------------------|-------------------------------|
| 8L10360 | SS-1 | 1.0 | 470 |

Method of Analysis: EPA 418.1

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9222 • FAX (415) 364-9233

Aqua Terra Technologies
2950 Buskirk Ave., Suite 120
Walnut Creek, CA 94596
Attn: Julie Menack

Date Sampled: 11/02/88
Date Received: 11/03/88
Date Analyzed: 11/03/88
Date Reported: 11/04/88

Project: 1420 45th St.,
Emeryville

TOTAL PETROLEUM FUEL
HYDROCARBONS WITH BTEX DISTINCTION

Sample Number

8110360

Sample Description

Soil, SS-1

| | <u>Detection Limit</u> ppm | <u>Sample Results</u> ppm |
|--|-----------------------------------|----------------------------------|
| Low to Medium Boiling Point Hydrocarbons | 1.0 | N.D. |
| Benzene | 0.05 | N.D. |
| Toluene | 0.1 | N.D. |
| Ethyl Benzene | 0.1 | N.D. |
| Xylenes | 0.1 | N.D. |

Method of Analysis: EPA 5030 or 3810/8015/8020

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Aqua Terra Technologies
2950 Buskirk Ave., Suite 120
Walnut Creek, CA 94596
Attn: Julie Menack

Date Sampled: 11/02/88
Date Received: 11/03/88
Date Analyzed: 11/04/88
Date Reported: 11/04/88

Project: 1420 45th St.,
Emeryville

TOTAL PETROLEUM HYDROCARBONS

| <u>Sample Number</u> | <u>Sample Description</u> Soil | <u>Detection Limit</u> ppm | <u>High Boiling Point Hydrocarbons</u> ppm |
|----------------------|-----------------------------------|-------------------------------|---|
| 8110360 | SS-1 | 1.0 | N.D. |

Method of Analysis: EPA 3550/8015

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

ATTACHMENT B

**Alameda County Health Care Services
Agency Correspondence**

ALAMEDA COUNTY
HEALTH CARE SERVICES

DAVID J. KEARS, AGENCY
~~COORDINATOR~~, Agency Director



Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

26 January, 1989

Telephone Number:(415) 271-4320

Aqua Terra Technologies
2950 Buskirk Avenue
Suite 120
Walnut Creek, Ca. 94596
ATTN: Bradley Bennett

Subject: Report of the Ground Water Monitoring Well at 4250 Horton
St. Emeryville.

Dear Mr. Bennett:

Thank you for the analytical data and monitoring well installation report submitted to our office concerning the underground storage tank removal project conducted at 4250 Horton Street in Emeryville. Your suggested quarterly monitoring schedule is in accordance with guidelines established by the San Francisco Bay Regional Water Quality Control Board and is acceptable to our department.

If you have any questions concerning this matter, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415)271-4320.

Sincerely,

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB

cc: Lisa McCann, SFBRWQCB

ATTACHMENT C

Table 1
Laboratory Analytical Data

Table 1. Reported Analytical Value Groundwater Monitoring
4250 Horton Street, Emeryville, CA

| Date Sampled | TPH as Oil & Grease (mg/L) | TPH as Diesel (mg/L) | TPH as Gasoline (mg/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Xylenes (ug/L) |
|--------------|----------------------------|----------------------|------------------------|----------------|----------------|---------------------|----------------|
| 12/05/88 | ND | NA | NA | NA | NA | NA | NA |
| 02/01/89 | 88 | NA | NA | NA | NA | NA | NA |
| 04/25/89 | ND | NA | NA | NA | NA | NA | NA |
| 07/21/89 | NA | NA | NA | ND | ND | ND | ND |
| 10/12/89 | NA | ND | .4 | 27 | ND | ND | ND |
| 5/25/91 | ND | ND | ND | ND | ND | ND | ND |

NA = Not Analyzed
ND = Not Detected

ATTN



1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

Julie Menack
Aqua Terra Technology
2950 Buskirk Ave., Ste. 120
Walnut Creek, CA 94596

December 21, 1988
Work Order Number 8812036
Date Received 12/07/88
Project No. 883

Dear Mr. Menack:

Two water samples were received for analysis of total oil and grease by gravimetric analysis, using the following method(s):

| ANAMETRIX I.D. | SAMPLE I.D. | METHOD(S) |
|-------------------|-----------------|-----------|
| 8812036-01 -02 | 883 MW1 " CB | 503E " |

RESULTS

See enclosed data sheets, Pages 2 thru 3.

NOTE: Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Sarah Schoen, Ph.D.
GC Manager

SRS/lm

Sample I.D. : 883 MW1
Matrix : WATER
Date sampled : 12-07-88
Date anl.TPHg: NA
Date ext.TPHd: NA
Date anl.TPHd: NA

Anamatrix I.D. : 8812036-01
Analyst : A.S.
Supervisor : DPG
Date released : 12-21-88
Date ext. TOG : 12-15-88
Date anl. TOG : 12-20-88

| CAS # | Compound Name | Detection Limit (ug/l) | Amount Found (ug/l) |
|-------|--------------------|------------------------|---------------------|
| | Total Oil & Grease | 10000 | ND |

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.
- TOG - Total Oil & Grease is determined by Standard Method 503E.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Nylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Sample I.D. : 883 CB
 Matrix : WATER
 Date sampled : 12-07-88
 Date anl.TPHg: NA
 Date ext.TPHd: NA
 Date anl.TPHd: NA

Anamatrix I.D. : 8812036-02
 Analyst : A.S.
 Supervisor : DCC
 Date released : 12-21-88
 Date ext. TOG : 12-15-88
 Date anl. TOG : 12-20-88

| CAS # | Compound Name | Detection Limit (ug/l) | Amount Found (ug/l) |
|-------|--------------------|------------------------|---------------------|
| | Total Oil & Grease | 10000 | ND |

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.
- TOG - Total Oil & Grease is determined by Standard Method 503E.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ENVIRONMENTAL & OCCUPATIONAL HEALTH SERVICES

3440 Vincent Road Pleasant Hill, CA 94523 • (415) 930-9090 • FAX# (415) 930-0256

LABORATORY ANALYSIS REPORT

AQUA TERRA TECHNOLOGIES
2950 BUSKIRK AVENUE
SUITE 120
WALNUT CREEK, CA 94596

REPORT DATE: 02/13/89

DATE SAMPLED: 02/01/89

DATE RECEIVED: 02/02/89

DATE EXTRACTED: 02/07/89

ATTN: BRAD BENNETT

DATE ANALYZED: 02/07/89

CLIENT PROJECT NO: 883

MED-TOX JOB NO: 8902010


ANALYSIS OF: ONE WATER SAMPLE FOR TOTAL OIL & GREASE

METHOD: EPA 9070

| Sample Identification | | Oil & Grease |
|-----------------------|---------|--------------|
| Client Id. | Lab No. | (mg/L) |
| MW1 | 01A | 88 |
| CB | 03A | ND |

Detection Limit: 1

ND = Not detected at or above indicated
method detection limit


Michael Lynch, Manager
Organic Laboratory

Results FAXed to Brad Bennett 02/08/89

ENVIRONMENTAL & OCCUPATIONAL HEALTH SERVICES

3440 Vincent Road Pleasant Hill, CA 94523 • (415) 930-9090 • FAX# (415) 930-0256

LABORATORY ANALYSIS REPORT

AQUA TERRA TECHNOLOGIES
2950 BUSKIRK AVENUE
SUITE 120
WALNUT CREEK, CA 94596

ATTN: BRAD BENNETT

CLIENT PROJECT NO: 883.1

REPORT DATE: 05/15/89

DATE SAMPLED: 04/25/89

DATE RECEIVED: 04/25/89

DATE ANALYZED: 04/28/89

MED-TOX JOB NO: 8904147

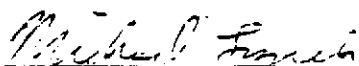
ANALYSIS OF: ONE WATER SAMPLE FOR TOTAL OIL & GREASE, AND TOTAL PETROLEUM HYDROCARBONS

METHOD: SM 5030/E

| Sample Identification | | Oil & Grease (mg/L) | Total Petroleum Hydrocarbons (mg/L) |
|-----------------------|---------|------------------------|---|
| Client Id. | Lab No. | | |
| MW1 (45th St) | 01A | ND | NA |
| T.B. | 02A | ND | NA |
| Detection Limit | | 1 | 1 |

ND = Not detected at or above indicated method detection limit

NA = Not applicable


Michael Lynch, Manager
Organic Laboratory

Results FAXed to Brad Bennett 05/04/89

ANAMETRIX INC

Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198



REPORT

Brad Bennett
Aqua Terra Technologies
2950 Buskirk Avenue
Suite 120
Walnut Creek, CA 94596

July 28, 1989
Anamatrix W.O.#: 8907157
Date Received : 07/21/89
Purchase Order#: N/A

Dear Mr. Bennett:

Your sample has been received for analysis. The REPORT SUMMARY lists your sample identifications and the analytical methods you requested. The following sections are included in this report: RESULTS.

NOTE: Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

ANAMETRIX, INC.

Terry Cooke
TPH Supervisor

TC/dag

REPORT SUMMARY
ANAMETRIX, INC. (408) 432-8192

Client : Aqua Terra Technologies
 Address : 2950 Buskirk Avenue
 Suite 120
 City : Walnut Creek, CA 94596
 Attn. : Brad Bennett

Anamatrix W.O.#: 8907157
 Date Received : 07/21/89
 Purchase Order#: N/A
 Project No. : 883.1
 Date Released : 07/28/89

| Anamatrix I.D. | Sample I.D. | Matrix | Date Sampled | Method | Date Extract | Date Analyzed | Inst I.D. |
|----------------|-------------|--------|--------------|--------|--------------|---------------|-----------|
|----------------|-------------|--------|--------------|--------|--------------|---------------|-----------|

RESULTS

| | | | | | | | |
|------------|-----|-------|----------|------|--|----------|-----|
| 8907157-01 | MW1 | WATER | 07/19/89 | BTEX | | 07/24/89 | N/A |
|------------|-----|-------|----------|------|--|----------|-----|

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 883.1 MW1
 Matrix : WATER
 Date sampled : 07/19/89
 Date anl.BTEX: 07/24/89
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 8907157-01
 Analyst : RK
 Supervisor : TC
 Date released : 07/28/89
 Date ext. TCG : N/A
 Date anl. TOG : N/A

| CAS # | Compound Name | Reporting Limit (ug/l) | Amount Found (ug/l) |
|-----------|---------------|------------------------|---------------------|
| 71-43-2 | Benzene | 0.5 | ND |
| 108-88-3 | Toluene | 0.5 | ND |
| 100-41-4 | Ethylbenzene | 0.5 | ND |
| 1330-20-7 | Total Xylenes | 1 | ND |

ND - Below reporting limit.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ENVIRONMENTAL & OCCUPATIONAL HEALTH SERVICES

3440 Vincent Road Pleasant Hill, CA 94523 • (415) 930-9090 • FAX# (415) 930-0256

LABORATORY ANALYSIS REPORT

AQUA TERRA TECHNOLOGIES
2950 BUSKIRK AVENUE
SUITE 120
WALNUT CREEK, CA 94596

ATTN: BRAD BENNETT

CLIENT PROJECT NO: 883.1

REPORT DATE: 10/31/89

DATE SAMPLED: 10/12/89

DATE RECEIVED: 10/13/89

DATE EXTRACTED: 10/20/89

DATE ANALYZED: 10/20/89

MED-TOX JOB NO: 8910102

ANALYSIS OF: ONE WATER SAMPLE FOR TOTAL PETROLEUM HYDROCARBONS;
ONE WATER SAMPLE FOR BTXE AND TOTAL PETROLEUM
HYDROCARBONS

METHOD: 8015 (EXTRACTION)

| Sample Identification | Lab No. | Total Petroleum Hydrocarbons as Diesel (mg/L) |
|-----------------------|---------|---|
| MW1 | 01C | ND |
| Detection limit | | 0.3 |

Michael Lynch
Michael Lynch, Manager
Organic Laboratory

Results FAXed to Brad Bennett 10/27/89

AQUA TERRA TECHNOLOGIES

CLIENT ID: MW1
 CLIENT JOB NO: 883.1
 DATE SAMPLED: 10/12/89
 DATE RECEIVED: 10/13/89
 REPORT DATE: 10/31/89

MED-TOX LAB NO: 8910102-01A
 MED-TOX JOB NO: 8910102
 DATE ANALYZED: 10/23-25/89
 INSTRUMENT: 9

BTXE AND TOTAL PETROLEUM HYDROCARBONS

METHOD: EPA 8020, 8015 (PURGE & TRAP)

| | CONCENTRATION (ug/L) | DETECTION LIMIT (ug/L) |
|----------------------------------|-------------------------|------------------------------|
| Benzene | 27 | 0.5 |
| Toluene | ND | 0.5 |
| Ethylbenzene. | ND | 0.5 |
| Xylenes | ND* | 2 |
| TOTAL PETROLEUM HYDROCARBONS AS: | | |
| Gasoline | 0.4 mg/L | 0.1 mg/L |

ND = Not Detected

AQUA TERRA TECHNOLOGIES

CLIENT ID: BTB
CLIENT JOB NO: 883.1
DATE SAMPLED: 10/12/89
DATE RECEIVED: 10/13/89
REPORT DATE: 10/31/89

MED-TOX LAB NO: 8910102-02A
MED-TOX JOB NO: 8910102
DATE ANALYZED: 10/23/89
INSTRUMENT: 9

BTXE AND TOTAL PETROLEUM HYDROCARBONS

METHOD: EPA 8020, 8015 (PURGE & TRAP)

| | CONCENTRATION (ug/L) | DETECTION LIMIT (ug/L) |
|----------------------------------|-------------------------|------------------------------|
| Benzene | ND | 0.5 |
| Toluene | ND | 0.5 |
| Ethylbenzene. | ND | 0.5 |
| Xylenes | ND | 2 |
| TOTAL PETROLEUM HYDROCARBONS AS: | | |
| Gasoline | ND mg/L | 0.1 mg/L |

ND = Not Detected

ATTACHMENT D

Chain of Custody Documentation
Sample Collection Records

Anamatrix 8812036

CHAIN OF SAMPLE CUSTODY RECORD

Collector: AQUA TERRA TECH Date Sampled: 12/7/88 Time: 0900
Location of Sampling: EMERYVILLE

Project Number: 883 Survey Number: _____
Sample Type: GROUND WATER
Container Type and Condition: 1 L AMBER
Contract Laboratory Record/Name: ANAMATRIX

| Sample ID | Field Information |
|----------------|----------------------|
| <u>MW1</u> | <u>(1) 1 L AMBER</u> |
| <u>MW1 DUP</u> | <u>(1) 1 L AMBER</u> |
| <u>CB</u> | <u>(1) 1 L AMBER</u> |
| | |
| | |

Analysis Requested: TOTAL OIL AND GREASE (SOBE)
EPA METHOD

Results Needed By: 2 WEEK TURNAROUND

Contact and results to be sent to: JULIE MENACK

Travel Blank: Yes No Travel Blank to be Analyzed Separately: Yes No

Duplicate Samples: Yes No Duplicates to be Analyzed Separately: Yes No

Cleaning Blank: Yes No Cleaning Blank to be Analyzed Separately: Yes No

Background Soil Sample: Yes No Background Soil Sample to be Analyzed Separately: Yes No

Chain of Custody:

1. [Signature] Mill 12/7/88
Field Personnel Date

2. _____
Date

3. Darim Lyle 12-7-88
Lab Date 10:15

934-4887

CHAIN OF SAMPLE CUSTODY RECORD

8902010

Collector: AQUA TERRA TECH Date Sampled: 2/1/89 Time: 0800
Location of Sampling: EMERYVILLE ARTIST-COOP

Project Number: 883 Survey Number: _____
Sample Type: GROUNDWATER
Container Type and Condition: 1 AMBER / COLD
Contract Laboratory Record/Name: MED TOX

| Sample ID | Field Information |
|------------|--------------------------------|
| <u>MWI</u> | <u>2-11 AMBER</u> <u>1A, B</u> |
| <u>TB</u> | <u>1-11 AMBER</u> <u>2</u> |
| <u>CB</u> | <u>1-11 AMBER</u> <u>3</u> |

Analysis Requested: TOG

Results Needed By: TWO WEEK TURNAROUND

Contact and results to be sent to: BRAD BENNETT

Travel Blank: Yes No Travel Blank to be Analyzed Separately: Yes No

Duplicate Samples: Yes No Duplicates to be Analyzed Separately: Yes No

Cleaning Blank: Yes No Cleaning Blank to be Analyzed Separately: Yes No

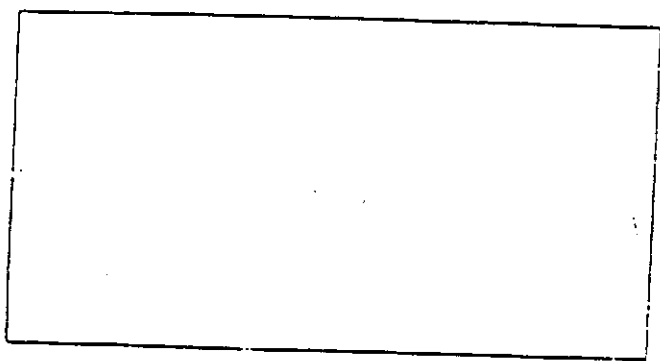
Background Soil Sample: Yes No Background Soil Sample to be Analyzed Separately: Yes No

Chain of Custody:

- Bill Mill 2/2/89
Field Personnel Date
- D. St John 2/2/89
Courier Date
- H. Van Vleet 2-2-89 1430
Lab Date

ENVIRONMENTAL SAMPLE COLLECTION RECORD

AT



Site Plan:

Date: 2/1/89 Time: 0800 Job No: 883

Sample ID: MW1 Location: ARTIST CO-C

Sampling Procedure: 3 TIMES STANDING VOLUME WAS PURGED FROM WELL USING A TEFLON BAILER AND NYLON ROPE. A SAMPLE WAS THEN COLLECTED USING THE SAME EQUIPMENT.

Water Level: 8.05 pH: 7.18

Depth to bottom of well: 24.35 Salinity: € 719

Well Purge Volume: 10 GAL Turbidity: TC 17

Purge Water Fate: GROWN Organic Vapor: _____

Sampling Equipment: TEFLON BAILER, TEFLON AND STAINLESS STEEL B.E.D., NYLON ROPE

Equipment Cleaning Procedures: EQUIPMENT WAS WASHED IN A TSP SOLN THEN RINSED TWICE IN DISTILLED WATER

Sampling Handling/Storage: SAMPLES KEPT COOL UNTIL REACHING LAB

Sample Collected By: JOHN MILLER

Signature: [Signature] Title: STAFF ENGINEER

~~89101146~~

2950 Buskirk Ave., Suite 120
Walnut Creek, CA 94596
(415) 934-4884

R-1
S-1

Michael Deschenes CHAIN OF SAMPLE CUSTODY RECORD

Collector: Bruce Berman Date Sampled: 4-25-89 Time: _____
Location of Sampling: 45th Street @ Horton Street, Emeryville
45th St → Horton St.
Project Number: EP3.1/8107 Survey Number: _____
Sample Type: Water
Container Type and Condition: 1 L amber glass, 1 L plastic, 40 ml. VOA's, pre-cleaned
Contract Laboratory Record/Name: Med Tox

Sample ID Field Information
Ritkin: 2 one L plastic & 2 one 40 ml. VOA's
W1 (45th St): 3 one L amber glass O1, B, C O+G, V, +, +, +, +
W2: one 1 L amber, one 1 L plastic, two 40 ml. VOA's O2, A, B, C

Analysis Requested: Ritkin = Total Dissolved Solids, TPH Gas & BTEX
W1 (45th St) = Total Oil & Grease EPA 803E
W2 contact Brad Bennett for confirmation on analysis

Results Needed By: 5-10-89
Contact and results to be sent to: Brad Bennett

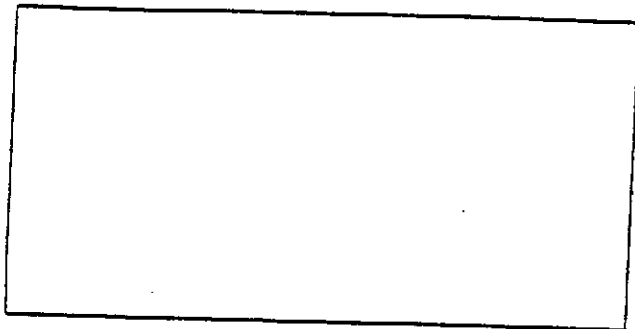
Level Blank: Yes No Travel Blank to be Analyzed Separately: Yes No
Duplicate Samples: Yes No Duplicates to be Analyzed Separately: Yes No
Cleaning Blank: Yes No Cleaning Blank to be Analyzed Separately: Yes No
Background Soil Sample: Yes No Background Soil Sample to be Analyzed Separately: Yes No

Chain of Custody:
Bruce Berman Michael Deschenes 4-25-89
Field Personnel Michael Deschenes 4-25-89 Date 2:20pm
Kevin Byrnes MED-TOX 4-25-89 Date 14:22

AT

AT

ENVIRONMENTAL SAMPLE COLLECTION RECORD



Site Plan:

Date: 4-25-89 Time: 1:05 pm. Job No: 883.1

Sample ID: MW11 Location: 45th St. Emeryville

Sampling Procedure: Purge three standing well volumes, collect samples

Water Level: 7.14' pH: 6.93

Depth to bottom of well: ~24' temp: 18°C

Well Purge Volume: 8.5 gal. conductivity: 1290 uS

Purge Water Fate: 55 gal. drum Turbidity: slight, light brown/gray sediment

Sampling Equipment: disposable bailers, nylon cord, surgical gloves Organic Vapor: ---

Equipment Cleaning Procedures: bailer, cord, & gloves discarded after use, bailer pre-cleaned by supplier.

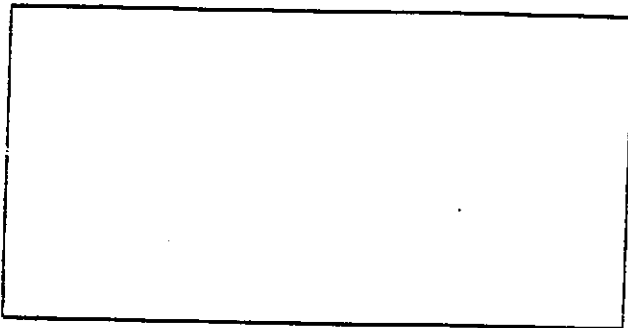
Sampling Handling/Storage: samples placed in a cooler with ice immediately after collection.

Sample Collected By: Bruce Berman / MICHAEL DESCHENES

Signature: Bruce Berman Title: Staff Scientist
Michael Deschenes

ENVIRONMENTAL SAMPLE COLLECTION RECORD

AT



Site Plan:

Date: 7-19-89 Time: 1:40 pm Job No: 883.1

Sample ID: MW1 Location: 45th Street, Emoryville.

Sampling Procedure: Purge three standing well volumes, collect sample

Water Level: 6.84' pH: 6.25

Depth to bottom of well: 424' Cond.: 0860 uS

Well Purge Volume: 9 gal. Temp.: 19°C

Purge Water Fate: 55 gal. down Turbidity: very slight, almost clear (gray sediment)

Organic Vapor: 0
 Sampling Equipment: polyethylene disposable bailer, nylon cord, surgical gloves

Equipment Cleaning Procedures: Cord, gloves, and bailer discarded after each use, bailer pre-cleaned by supplier.

Sampling Handling/Storage: Samples placed in a cooler with ice immediately after collection.

Sample Collected By: Bruce Berman

Signature: [Signature] Title: Staff Scientist

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

111

CHAIN OF SAMPLE CUSTODY RECORD
 (original document, please return)

Sampled By: RICHARD RUSH

Date Sampled: 10/12/88

Signature: [Handwritten Signature]

Job Number: 883.1

Results To Be Sent To: BRAD BENNETT

Laboratory Name: MED-TOX

Results Needed By: 10/27/88

Contact: _____

Sampling Location: _____

Phone #: _____

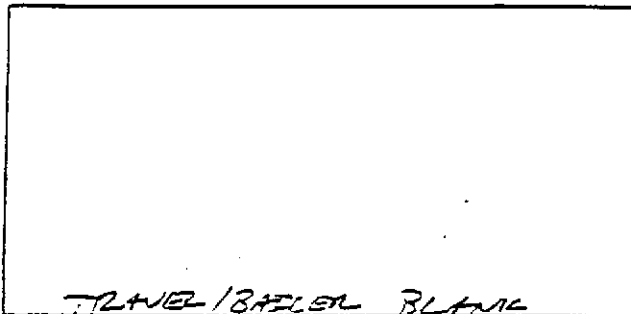
| Sample Identification | | | | | | | Analysis/EPA Method No. | | | | | |
|-----------------------|--------------|--------|----------------------|-----------|------------|-----|-------------------------|---------|-------------|--|--|---------|
| Sample Collection | | | Number of Containers | Preserved | Containers | | | TPH GAS | TPH DIESTER | | | Remarks |
| Sample ID | Time (24 hr) | Matrix | | | 50/70 | 100 | | | | | | |
| MW1 | 12:00 | WATER | 4 | NO | 2 | 2 | X | X | | | | |
| BTB | 11:40 | " | 2 | NO | 2 | | X | | | | | |
| : | : | : | : | : | : | : | | | | | | |
| : | : | : | : | : | : | : | | | | | | |
| : | : | : | : | : | : | : | | | | | | |
| : | : | : | : | : | : | : | | | | | | |
| : | : | : | : | : | : | : | | | | | | |
| : | : | : | : | : | : | : | | | | | | |
| : | : | : | : | : | : | : | | | | | | |

Notes:

| Relinquished By | Date | Time |
|-----------------|------|------|
| | | : |
| | | : |
| | | : |

| Received By | Date | Time |
|-------------|------|------|
| | | : |
| | | : |
| | | : |

ENVIRONMENTAL SAMPLE COLLECTION RECORD



Site Plan:

TRAVEL/BAILER BLANK

Date: 10/12/89 Time: 11:40 Job No: 883.1

Sample ID: BTB Location: ARTIST CO-OP

Sampling Procedure: 4 STANDING WATER SAMPLES COLLECTED FROM WELLS USING A PERCUSSION BAILER THE SAMPLE BAILER WAS THEN USED TO COLLECT THE SAMPLES

Water Level: _____ pH: _____

Depth to bottom of well: // Salinity: //

Well Purge Volume: // Turbidity: //

Purge Water Fate: 55 GAL DRAIN Organic Vapor: //

Sampling Equipment: WELLS SOUNDER, PH METER THERMOMETER RUBBER LINES, TEFLOW BAILER, NYLON CORD

Equipment Cleaning Procedures: THE EQUIPMENT WAS WASHED IN DSD AND RINSED IN DISTILLED WATER TWO TIMES

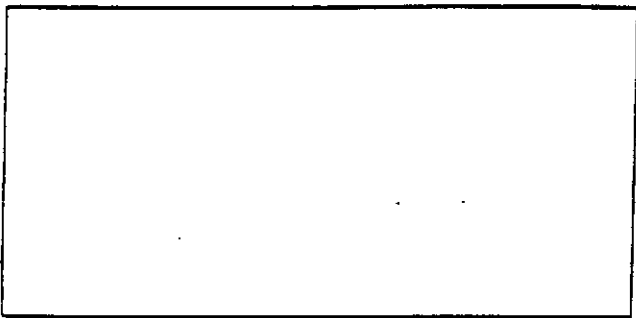
Sampling Handling/Storage: SAMPLES KEPT IN A COOLER UNTIL REACHING THE LAB

Sample Collected By: RICHARD BRUSH

Signature: [Signature] Title: FRED TEN

ATT

ENVIRONMENTAL SAMPLE COLLECTION RECORD



Site Plan:

Date: 10/12/89 Time: 12:00 Job No: 883.1

Sample ID: MW1 Location: ARTIST CO-OP

Sampling Procedure: 4 STANDING WELLS WERE REMOVED FROM WELLS USING A PERCHLORATE THE SAME PERCHLORATE WAS THEN USED TO COLLECT THE SAMPLES

Water Level: 651 pH: 6.48

Depth to bottom of well: 24' Salinity: 0 770 CONU.

Well Purge Volume: 11 Turbidity: VERY LIGHT

Purge Water Fate: 55 GAL DRAIN COLOR: TAN Organic Vapor: NONE

Sampling Equipment: WELLS PUMPED, PH METER THERMOMETER RUBBER GLOVES, TEFALON BELLS, NYLON CORD

Equipment Cleaning Procedures: THE EQUIPMENT WAS WASHED IN TSP AND RINSED IN DISTILLED WATER TWO TIMES

Sampling Handling/Storage: SAMPLES KEPT IN A COOLER UNTIL REACHING THE LAB

Sample Collected By: RICHARD BRUSH

Signature: [Handwritten Signature] Title: FIELD TECH

APPENDIX

B

EUREKA
LABORATORY
REPORTS

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (GC-FID) FOR WATER

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC.
REPORT UNIT: ppm (mg/kg)
SAMPLE LOCATION: Emeryville
SAMPLE ID: M91-125-1w

DATE SAMPLED: 5/25/91
DATE RECEIVED: 5/28/91
DATE EXTRACTED: 5/29/91
DATE COMPLETED: 5/29/91
DILUTION FACTOR: 1.00

| PETROLEUM HYDROCARBONS | RESULT | DETECTION LIMIT |
|------------------------------|--------|-----------------|
| Gasoline Range | <.1 | .1 |
| Diesel Range | <.2 | .2 |
| Motor Oil Range | <.5 | .5 |
| Total Petroleum Hydrocarbons | | |
| CARBON NO. RANGE | | |
| Gasoline Range | - | |
| Diesel Range | - | |
| Motor Oil Range | - | |
| PEAK CARBON NO. | | |
| Gasoline Range | - | |
| Diesel Range | - | |
| Motor Oil Range | - | |

Chemist

Mark Shih
Mark Shih, Ph.D

5-29-91
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (GC-FID) FOR WATER

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC.
REPORT UNIT: ppm (mg/kg)
SAMPLE LOCATION: Emeryville
SAMPLE ID: METHOD BLANK

DATE SAMPLED: 5/25/91
DATE RECEIVED: 5/28/91
DATE EXTRACTED: 5/29/91
DATE COMPLETED: 5/29/91
DILUTION FACTOR: 1.00

| PETROLEUM HYDROCARBONS | RESULT | DETECTION LIMIT |
|------------------------------|--------|-----------------|
| Gasoline Range | <.1 | .1 |
| Diesel Range | <.2 | .2 |
| Motor Oil Range | <.5 | .5 |
| Total Petroleum Hydrocarbons | | |
| CARBON NO. RANGE | | |
| Gasoline Range | - | |
| Diesel Range | - | |
| Motor Oil Range | - | |
| PEAK CARBON NO. | | |
| Gasoline Range | - | |
| Diesel Range | - | |
| Motor Oil Range | - | |

Chemist


Mark Shih, Ph.D

5-29-91
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (GC-FID) FOR WATER

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC.
REPORT UNIT: ppm (mg/kg)
SAMPLE LOCATION: Emeryville
SAMPLE ID: SPIKE RECOVERY
REAGENT

DATE SAMPLED: 5/25/91
DATE RECEIVED: 5/28/91
DATE EXTRACTED: 5/29/91
DATE COMPLETED: 5/29/91
DILUTION FACTOR: 1.00

| PETROLEUM HYDROCARBONS | RESULT |
|------------------------------|--------|
| Gasoline Range | NA |
| Diesel Range | 80% |
| Motor Oil Range | NA |
| Total Petroleum Hydrocarbons | |
| CARBON NO. RANGE | |
| Gasoline Range | - |
| Diesel Range | - |
| Motor Oil Range | - |
| PEAK CARBON NO. | |
| Gasoline Range | - |
| Diesel Range | - |
| Motor Oil Range | - |

Chemist

Mark Shah
Mark Shah, Ph.D

5-29-91
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (GC-FID) FOR WATER

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC.
REPORT UNIT: ppm (mg/kg)
SAMPLE LOCATION: Emeryville
SAMPLE ID: SPIKE RECOVERY DUP.
REAGENT

DATE SAMPLED: 5/25/91
DATE RECEIVED: 5/28/91
DATE EXTRACTED: 5/29/91
DATE COMPLETED: 5/29/91
DILUTION FACTOR: 1.00

| PETROLEUM HYDROCARBONS | RESULT |
|------------------------------|--------|
| Gasoline Range | NA |
| Diesel Range | 80% |
| Motor Oil Range | NA |
| Total Petroleum Hydrocarbons | |
| CARBON NO. RANGE | |
| Gasoline Range | - |
| Diesel Range | - |
| Motor Oil Range | - |
| PEAK CARBON NO. | |
| Gasoline Range | - |
| Diesel Range | - |
| Motor Oil Range | - |

Chemist

Mark Shih
Mark Shih, Ph.D

5-29-91
Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC.
PROJECT: 45th. Artist Coop.
SAMPLE ID: BLANK

DATE RECEIVED: 05/28/91
DATE EXTRACTED: 05/29/91
DATE ANALYZED: 05/29/91

| COMP NO. | COMPOUND | UG/KG (PPB) | DETECTION LIMIT ug/kg (ppb) |
|----------|-----------------------------|-------------|-----------------------------|
| V1 | Benzene | <1 | 1 |
| V2 | Chlorobenzene | <1 | 1 |
| V3 | 1,2-Dichlorobenzene | <1 | 1 |
| V4 | 1,3-Dichlorobenzene | <1 | 1 |
| V5 | 1,4-Dichlorobenzene | <1 | 1 |
| V6 | Ethyl benzene | <1 | 1 |
| V7 | Toluene | <1 | 1 |
| V8 | Xylenes (Dimethyl benzenes) | <1 | 1 |

Chemist

Huey-Chen Chow
Huey-Chen Chow

5/29/91
Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC.
PROJECT: 45th. Artist Coop.
SAMPLE ID: M91-125-1w

DATE RECEIVED: 05/28/91
DATE EXTRACTED: 05/29/91
DATE ANALYZED: 05/29/91

| COMP NO. | COMPOUND | UG/KG (PPB) | DETECTION LIMIT ug/kg (ppb) |
|----------|-----------------------------|-------------|--------------------------------|
| V1 | Benzene | <0.5 | 0.5 |
| V2 | Chlorobenzene | <0.5 | 0.5 |
| V3 | 1,2-Dichlorobenzene | <0.5 | 0.5 |
| V4 | 1,3-Dichlorobenzene | <0.5 | 0.5 |
| V5 | 1,4-Dichlorobenzene | <0.5 | 0.5 |
| V6 | Ethyl benzene | <0.5 | 0.5 |
| V7 | Toluene | <0.5 | 0.5 |
| V8 | Xylenes (Dimethyl benzenes) | <0.5 | 0.5 |

Chemist

Huey-Chen Chow
Huey-Chen Chow

Date

5/29/91

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 8020

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC. DATE RECEIVED: 05/28/91
PROJECT: 45th. Artist Coop. DATE EXTRACTED: N/A
SAMPLE ID: REAGENT SPIKE RECOVERY * DATE ANALYZED: 05/29/91

| COMP NO. | COMPOUND | SPIKE RECOVERY |
|----------|-----------------------------|----------------|
| V1 | Benzene | 104% |
| V2 | Chlorobenzene | 97% |
| V3 | 1,2-Dichlorobenzene | 98% |
| V4 | 1,3-Dichlorobenzene | - |
| V5 | 1,4-Dichlorobenzene | - |
| V6 | Ethyl benzene | 94% |
| V7 | Toluene | 102% |
| V8 | Xylenes (Dimethyl benzenes) | 106% |

* This set of reagent spike is from another sample of the same matrix and of the same analytical batch.

Chemist

Huey-Chen Chow
Huey-Chen Chow

5/29/91
Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 8020

EUREKA LABORATORIES, INC.
67 Florin Perkins Road
Sacramento, Ca. 95828
(916) 381-7953

Order No.: 91-05/248
Hazardous Waste Testing
Certification No.: E765

CLIENT: C M CHAMBERS & ASSOC.
PROJECT: 45th. Artist Coop.
SAMPLE ID: REAGENT SPIKE DUP.
RECOVERY *

DATE RECEIVED: 05/28/91
DATE EXTRACTED: N/A
DATE ANALYZED: 05/29/91

| COMP NO. | COMPOUND | SPIKE RECOVERY |
|----------|-----------------------------|----------------|
| V1 | Benzene | 95% |
| V2 | Chlorobenzene | 95% |
| V3 | 1,2-Dichlorobenzene | 97% |
| V4 | 1,3-Dichlorobenzene | - |
| V5 | 1,4-Dichlorobenzene | - |
| V6 | Ethyl benzene | 92% |
| V7 | Toluene | 94% |
| V8 | Xylenes (Dimethyl benzenes) | 103% |

* This set of reagent spike is from another sample of the same matrix and of the same analytical batch.

Chemist

Huey-Chen Chow
Huey-Chen Chow

Date

5/29/91

