#### 45TH STREET ARTISTS COOPERATIVE

Dennis Byrne
Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

9 November 1989

Dear Mr. Byrne

Enclosed please find copies of the fourth quarterly (final) sampling event report documents sent to me by Aqua Terra Technologies for 4250 Horton Street, Emeryville. This fourth, and hopefully final, sampling took place on 12 October 1989; we are very pleased to see no detectable levels of TPH as diesel, toluene, ethylbenzene, or xylenes, analyses done in accordance with our previously recorded agreement reached in July 1989.

As stated in the ATT report, "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 Co-op hopes this concludes your concern on this matter and that our site may be removed from the Regional Water Quality Control Board (RWQCB) list.

if there is anything else that you require, please let me know. I can be reached at the Artists Co-op offices on Tuesday and Thursday, or you may leave a message as to the best time to get back to you.

Yours truly,

A.Robin Orden Executive Director

enclosures



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. of the November 9, 1988 ATT underground storage tank closure report summarizing the closure activities and analytical results is provided in Attachment A. 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

2950 Buskirk Avenue Suite 120 Walnut Creek, CA 9 4 5 9 6 415 934-4884 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 Although ATT has not conducted a formal survey source. 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 Terya Technologies, Inc.

Bradley J. Bennett

Project Manager

R. Wane Schneiter, Ph.D.

Civil Engineer No. 38735 (Expires 3/31/93)

BJB/RWS:pd Attachments ATTACHMENT A Underground Storage Tank Closure Report

November 9, 1988

ATT

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.

Aqua Terra Technologies Consulting Engineers & Scientists

2950 Buskirk Avenue Suite 120 Walnut Creek, CA 9 4 5 9 6 415 934-4884 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."

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

- 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



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

Sample Description Limit Petroleum Oil
Soil mg/kg mg/kg

8110360 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 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

	Detection Samp	
	ppm	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

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

Sample <u>Number</u>	Sample <pre>Description Soil</pre>	Detection Limit ppm	High Boiling Point Hydrocarbons 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



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

Telephone Number: (415) 271-4320

26 January, 1989

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 Ouality 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

Rofic & Shah

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)	THH as Diesel (mg/L)	TPH as Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
15/05/88	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 5/25/91	NA NO	ND ⋈D	ND	27 MD	ND ペク	DIN CVX	OND CLD

NA = Not Analyzed ND = Not Detected



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/1m

ANAMETRIX, INC. (408) 432-8192

 Sample I.D. : 883 MW1
 Anametrix I.D. : 8812036-01

 Matrix : WATER
 Analyst : A.S.

 Date sampled : 12-07-88
 Supervisor : DDG

 Date anl.TPHg: NA
 Date released : 12-21-88

 Date ext.TPHd: NA
 Date ext. TOG : 12-15-88

 Date anl.TPHd: NA
 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.

Page 2 of 3.

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

 Sample I.D. : 883 CB
 Anametrix I.D. : 8812036-02

 Matrix : WATER
 Analyst : 1.5.

 Date sampled : 12-07-88
 Supervisor : DCC,

 Date anl.TPHg: NA
 Date released : 12-21-88

 Date ext.TPHd: NA
 Date ext. TOG : 12-15-88

 Date anl.TPHd: NA
 Date anl. TOG : 12-20-88

CAS	S = Compound Name	 Detection Limit ·(ug/l)	Amount Found (ug/l)	1 1 1
	Total Oil & Grease	10000	ND	1 1 1 1 1 1 1 1 1 1

- 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.

Page 3 of 3.



#### **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

REPORT DATE: 02/13/89

DATE SAMPLED: 02/01/89

DATE RECEIVED: 02/02/89

DATE EXTRACTED: 02/07/89

02/07/89 DATE ANALYZED:

MED-TOX JOB NO: 8902010 CLIENT PROJECT NO: 883

ANALYSIS OF: ONE WATER SAMPLE FOR TOTAL OIL & GREASE

METHOD: EPA 9070

Sample Ident Client Id.		Oil & Grease (mg/L)
MW1 CB	01A 03A	88 ND
Detection Li	mit	1

ND = Not detected at or above indicated method detection limit

Michael Lynch, Manager Organic Laboratory

Results FAXed to Brad Bennett 02/08/89

SAN DIEGO

LOS ANGELES

SAN FRANCISCO

SEATTLE

WASHINGTON, D.C.



#### **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

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

PETROLEUM HYDROCARBONS

METHOD: SM 503D/E

Sample Identif Client Id.	ication Lab No.	Oil & Grease (mg/L)	Total Petroleum Hydrocarbons (mg/L)
MW1 (45th St)	01A	ND	NA
T.B	02A	ND	NA
Detection Limi	t	1	1

ND = Not detected at or above indicated method detection limit

SAN FRANCISCO

NA = Not applicable

Michael Lynch, Manager

Organic Laboratory

SAN DIEGO

Results FAXed to Brad Bennett 05/04/89

SEATTLE

WASHINGTON, D.C.

#### ANAMETRIX INC

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



Brad Bennett Aqua Terra Technologies 2950 Buskirk Avenue Suite 120 Walnut Creek, CA 94596 July 28, 1989

Anametrix 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 Address City Attn.	: Aqua Terra Tech : 2950 Buskirk And Suite 120 : Walnut Creek, Common Brad Bennett	zenue Tenue	Anametrix W.O Date Received Purchase Orde Project No. Date Released	l : 07/21/89 er#: N/A : 883.1
Anametri	x   Sample   I.D.	Date  Matrix Sample	\	e   Date  Inst   ct  Analyzed I.D.
RESULTS			<u></u>	
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 Anametrix I.D.: 8907157-01 Matrix : WATER Analyst : RK

Date sampled: 07/19/89 Date anl.BTEX: 07/24/89 Date ext.TPHd: N/A Supervisor Date released : 07/28/89

Date ext. TOG : N/A Date anl. TPHd: N/A Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/l)	Amount   Found   (ug/1)
71-43-2  108-88-3  100-41-4  1330-20-7	Benzene   Toluene   Ethylbenzene   Total Xylenes	0.5 0.5 0.5	ND   ND   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 Client Id. Lab No.		Total Petroleum Hydrocarbons as Diesel (mg/L)
MWI	010	ND
Detect-	ion limit	0.3

Michael Lynch, Manager Organic Laboratory

Results FAXed to Brad Bennett 10/27/89

SAN DIEGO LOS ANGELES SAN FRANCISCO SEATTLE WASHINGTON, D.C.



0F 3 PAGE 2

#### 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 JOB NO: 8910102

MED-TOX LAB NO: 8910102-01A

DATE ANALYZED: 10/23-25/89 INSTRUMENT: 9

#### BTXE AND TOTAL PETROLEUM HYDROCARBONS

METHOD: EPA 8020, 8015 (PURGE & TRAP)

CONCENTRATION (ug/L)	LIMIT (ug/L)
27	0.5
ND	0.5
ND	0.5
ND	2
:	
0.4 mg/L	0.1 mg/L
	27 ND ND ND

ND = Not Detected



PAGE 3 OF 3

#### 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 A	s:	
Gasoline	ND mg/L	0.1 mg/

ND = Not Detected

#### ATTACHMENT D

Chain of Custody Documentation Sample Collection Records



## Ancinetrix 8812036

#### CHAIN OF SAMPLE CUSTODY RECORD

Collector: AONA JEKAN JECH Date Sampled: 12 Location of Sampling: EMERIVE	<u>/7/88</u> Time: <u>0900</u>
Project Number: 853 - Survey Number: Sample Type: Graws water  Container Type and Condition: I forser  Contract Laboratory Record/Name: ANAMGTRY	
Sample ID  MUI (I) I L AMBGE  MUI DUP  (I) I L AMBGE  (I) I L AMBGE  (I) I L AMBGE  (II) I L AMBGE  (III) I L AMBGE  (IIII) I L AMBGE  (II	yn .
Analysis Requested: 1574/ 016 AND GR	PEASE (503E)
Results Needed By:	
Travel Blank: Yes No Travel Blank to be Analyzed Duplicate Samples: Yes No Duplicates to be Analyzed Se Cleaning Blank: Yes No Cleaning Blank to be Analyzed	eparately: Yes / No
Background Soil Sample to be Soil Sample: Yes No Analyzed Separately:	1
Chain of Custody:  1. Field Personnel  2. Courier (	17/7/88
3. Lab	12-7-88 10:15  Date



CHAIN OF SAMPLE CUSTODY RECORD

8902010

•		
Collector: Aque	TERRA TECH Date Sampled:	2/1/89 Time: 73800
Location of Sampling:	EMENTULLE ALTIST -	Co. C. C.
Project Number: 35	Survey Number:	
Sample Type:	CORDUNDWATER	
Container Type and Condi	GROUNDWATER Lition: 11 AMBER / COLA	
Contract Laboratory Reco	ord/Name: MED Tox	
•		
Sample ID	Field Information	tion
mwI		
— TB	2-11 AMBGES	/A,B
	AMBER	<u> </u>
	- I AMBER	<u> </u>
		·
Analysis Requested:		
	<del></del>	
Domitte Market 12		
Weson of Mesuso WA:	TWO WEEK TURNAMUN	7D
condition of	e sent to: BRAD BENNET	1
Travel Blank: \times \times \times	es / No Travel Blank to be Analyz	<u></u>
7	es /_/ No Travel Blank to be Analyz	ed Separately: / / Yes / /
Duplicate Samples: X Y	es / No Duplicates to be Analyzed	
<u> </u>	A VI MO CONTICATES to be Analyzed	separacely: // Xes //
Cleaning Blank: 📈 Y	es // No Cleaning Blank to be Analy	uzed Secarately:
.74	1 10 Creating Blank to be Analy	Zed Sejaracery. / Yes /
Background	Packground. Soil Sample to	Ja
Soil Sample: /_/ y	es No Analyzed Separately:	
	7 4	/_/ ies /_/
Chain of Custody:		•
. 00	$\sim \sim 1$	1 /
	1./11	2/2/87
Field Personnel	The has	Date
Courier "	1 Jajn	U/Q/+6.
3. H. Van V	0.10	C Date
Lab	<u> </u>	2-2-89 Late 143
		Date

Adda Terra Technologies

## ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan:
Date: 2/1/89 Time: 0800 Job No: 883
Sample ID: Mw/ Location: ARTIST CO-O
Sampling Procedure: 3 TIMES STANDING VOLUME WAS
PHIREED FROM WELL USING A TEFIN BALLER AND N'
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: 6 719
Well Purge Volume: 10 GAL Turbidity: TC 17
Purge Water Fate: GROWN Organic Vapor:
Sampling Equipment: TEFLON BAILER, TEFLON AND STAINLES
STEEL R.E.D., NYWN ROPE
Equipment Cleaning Procedures: EQUIPMENT WAS WASHED
IN A TOP SOIN THEN RINGED TWICE IN DISTILLE
WATER 1818 TILLES
Sampling Handling/Storage: <u>SAMPLES KEPT COUN UNTIL</u>
REACHING LAS
Sample Collected By: Top Miller
Signature:AS Mill Title: STAFF ENGINEER



K3.A

833.1 8904/46-

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

Michael Deschenes of SAMPLE CUSTODY RECORD
Collector: Bruce Borman Data Complete 475589
Collector: Source Rerman Date Sampled: 4-25-67 Time:  Location of Sampling: 45th Street & Horten Street, Emerguille
Project Number: 883. 1/8107 Survey Number:
Project Number: 85.3. 8107 Survey Number:
Sample Type: water  Container Type and Condition: / L umber class, / L plantic, 40 ml. UDA's, pra - classes
Contract Laboratory Record/Name: Med Tox
Sample ID Field Information
Pitkin ; 2 one L plastic of \$ four 40 ml. Voiss
MWI (45th St) = S one Lember glass OIABC O+GO Star
T.B.; one I Lamber, one IL plantice, two 40 ml. VOAS 02 F.
Analysis Requested: Rifkin = Total Dissolved Solids, TPH Gas & BTEX
MWI (45-16 St) = Total Oil & Eyease FA SDBE
I Bi contact Brad Bernett for confirmation on analysist
Results Needed By: 5-10-27
Contact and results to be sent to: Snad Sennett
Travel Blank: Yes / No Travel Blank to be Analyzed Separately: Yes / No
Applicate Samples: X Yes / No Duplicates to be Analyzed Separately: / Yes X No
leaning Blank: // Yes X No Cleaning Blank to be Analyzed Separately // Yes X No
Background Soil Sample to be  soil Sample: Yes // No Analyzed Separately: // Yes // No
hain of Custody:
Dure Being - mile / / 1/25-89 2
Field Personnel
June Hen Michael Verlines 4-25-89 2:20m
Course Byano MED-TOX 4-25-89 14:22
Lab

## ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan:
Date: 4-25-89 Time: 1/05 pm. Job No: 883.
Sample ID: MW/ Location: 45th St. Enery ville
Sampling Procedure: Furge three ortanding well volume
Collect Samples
Water Level: 7.14 ph: 6.93
Depth to bottom of well: $\sim 24^-$ ph: $6.93$ $temp: 186$ Salinity:
Well Pures Volume & Cond: 1290 m5
Pura Water Fate 55 1
Sampling Equipment: disposable bailers, nylon cord,
surgical gloves
discarded after use bailes as to
discarded after use bailer pre-cleaned by supplier.
Sampling Handling/Storage: Samples placed in a cooler with ice immidiately after collection.
in miniatery after collection.
Sample Collected D. P. /
Sample Collected By: Bruce Rorman Michael DESCHENES Signature: Burn Bern Title: Staff Scientific
Title Start

Title: Staff Scientist

Aqua Terra Technologies Consulting Engineers & Scientists

	PROJ. NO. PROJECT NAME Artists Co-op, 883.1 45th Street, Emerycille SAMPLERS: Signature Send report attention to; Brad Bennett/ Keith Otto Bruce Berman							NO OF CON- TAINERS		7	//	//	1	7		REMARKS	•
STA NO		TIME	COMP.	GRAB		ON LOCAT	-	4_	X X	5/		<u>//</u>	// 		extra collec	asortalines tecl	→ .
																	Inc. inth Chemistry vu. Suite E 95131
								-	 		-						etrix, evironmers erse per
															-		Anam Analytical & En 1961 Compoou Sám Jo
	<b></b>									r							**
Brike	e Ken	by:Signa by:Signa	·	7-10	-21-87 2135	Ta, hi	d by:Signatur 	/ <i>  大洋ル</i>   1053	769 35	7	lim	كرز	·			Toon Te	
Relinqu	ished l	by:Signa	ture	Da	nte/Time	Received	d by:Signatuı	re Date/T	ime	. A L	omp ddr Jal	any ess (nw	Na 29 <del>(</del>	so Cr	reek,	tirk Aue CA. 945	echnoloojes L., Suite 120 596

### ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan:
Date: 7-19-89 Time: 1:40pm Job No: 883.1
Sample ID: MW/ Location: Emery ville.
Sampling Procedure: Puras three Standing well
volumes, collect sample
Water Level: 6.84 ph: 6.25
Depth to bottom of well: 124 Cond : 0860 us
Well Purge Volume: 9 gal- Turbidity: very slight, almost
Purge Water Fate: 55 gal drup Organic Vapor:
Sampling Equipment: polyetholon disposable briler,
nylan cord, surgical alover
Equipment Cleaning Procedures: Lovd alous, and bottom
discarded after each use, failer pre-cleares
by supplier.
Sampling Handling/Storage: Samples placed in a cooper
sampling Handling/Storage: Samples placed in a cooler with the immidiately offer collection.
Sample Collected By: Truce Terman
Signature: Staff Signist

Aqua Terra Technologies
. 2950 Buskirk Avenue Ste. 120
Walnut Creek, CA 94596

Tel. (415) 934-4884 - \* Fax. (415) 934-0418

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

Page	1	of	1

Signature: Lowelffelt								Date Sampled: 10/12/8  Job Number: 883./  Laboratory Name: MED-TOX  Contact: Phone #:											
	Sample I	dentifi	cat.	ior	ı							A	nal	ysi	s/E	PA	Meth	od No	
Sample	Collecti	on	o c.	ed	(	Cor	nta	in∈	rs			Ø /	SI		/ /	7	7	<del></del>	
Sample ID	Time (24 hr)	Matrix	Number Containe	Preserv	Your	145					Į,			/		/	/ F	lemark	(S
MWI	12:00	WATER	4	50	2	2					Χ	Х						••	
BTB	11:40	· -	2	Ιī		1					X								
	:												-						
	•																		
		-																	
	:																		
	•										-		ï						
	:												_					•	
	•																		
	:		<del></del>																
Notes:						·			<u>-</u>	•							•		

Relinquished By	Date	Time
		:
		:
		:

Received By	Date	Time
		•
,		:
		:

# ATT

#### ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan:	TRAVEL/BASKER	BLANK		
Date:	/89 Time:	11:40	Job No:	8-83.1
Sample ID:	BTB	Location:	ARTIST	<u> </u>
Sampling Procedu	re: 4 577050c	vains was	RE RUTTONE	<del>~</del>
FROM WINGS U	SENCE A PERCO	BATICA T	us stre	
BATLER NA T	HEN USED TO	COLLECT THE	<u> </u>	ह्य
Water Level:		pH:	<del></del>	
Depth to bottom	of well:	Salinity:		
Well Purge Volume	e:	Turbidity:	/_	·
Purge Water Fate	: SS GAL DAW	organic Var	por: _//	<i></i>
Sampling Equipmen	nt: was sourpe	a , PH MARE	e there	onetal_
RUBBETL MAR	TEFLON BELL	עסאיט איי	cons	· · · · · · · · · · · · · · · · · · ·
Equipment Cleaning	ng Procedures:	THE FOUL	ener y	<u> </u>
WARRED TO	TSP AND RINSE		ue w	4722
TWO TENES			•	
Sampling Handling	g/Storage: <u>\ SA</u>	IPLES KAP	- IN A	COSLETL
_	NO THE LAB			<u> </u>
Sample Collected	By: <u>QTCHAND</u>	BRUSH		•
	mf Buls	· <del>_</del>	FeD T	EH

111

## ENVIRONMENTAL SAMPLE COLLECTION RECORD

Site Plan:	,
Date: 10/12/89 Time: 12:00 Job No: 883.	<u>/</u>
Date:	<u> </u>
Sample ID: Mw/ Location: AUIST CO-O	
Procedure: 4 STANDENC VAINS WHERE PROVED	_
From wires USING A TERM RATION THE SAME	
FROM WIRES USTACE THE SAVES	
BATURE WAS THEN USED TO COLLECT THE SAMES	
Water Level:6.5/ pH:6.48	
Depth to bottom of well: 24' Salinity: 45 770	
Depth to bottom of well:	
Turblaity:	
Gir Dun Organic VaporNone	
Sampling Equipment:	7 <b>5%</b> -
Sampling Equipment:	
TETION BELET WILLIAM	
cleaning Procedures:	
0 0 1 (62) Les US	<del>7</del> 2
MASKED TO TSP AND RINGER	
TWO TIMES	
Sampling Handling/Storage: SAMPLES KUPT IN A CO	<u> </u>
Sampling named and Title ( 43	
UTTE PERCUTUS THE LAB	
Sample Collected By: OTCHAND BRICH	
Title.	4
Signature: Must find	