aqua science engineers inc.

August 30, 1994

QUARTERLY GROUNDWATER MONITORING REPORT
AUGUST 2, 1994 GROUNDWATER SAMPLING
ASE JOB NO. 2545

at
Former Alameda Max's
1357 High Street
Alameda, California 94501

Prepared for:
Mr. James A. Phillipsen
3111 Marina Drive
Alameda, CA 94501

Prepared by:
AQUA SCIENCE ENGINEERS, INC.
2411 Old Crow Canyon Road, #4
San Ramon, CA 94583
(510) 820-9391

1.0 INTRODUCTION

Site Location (Site), See Figure 1
Former Alameda Max's
1357 High Street
Alameda, CA 94501

Property Owner
Mr. James A. Phillipsen
3111 Marina Drive
Alameda, CA 94501

Environmental Consulting Firm
Aqua Science Engineers, Inc. (ASE)
2411 Old Crow Canyon Road, #4
San Ramon, CA 94583
Contact: Robert Kitay, Project Manager
(510) 820-9391

Agency Review
Alameda County Health Care Services Agency (ACHCSA)
1131 Harbor Bay Parkway
Alameda, CA 94502
Contact: Ms. Juliet Shin
(510) 567-6700

California Regional Water Quality Control Board (RWQCB),
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612
Contact: Mr. Kevin Graves
(510) 286-4359

The following is a report detailing the results of the August 2, 1994, quarterly groundwater sampling at the above referenced site.

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On August 2, 1994, ASE measured the depth to water in each site well using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen using both an oil-water inferface probe and a product thickness bailer. 0.16-feet of what appeared to be free-floating, unused, motor oil was on the surface of monitoring well MW-2. No free-floating hydrocarbons or sheen was present on the surface of water from monitoring wells MW-1 and MW-3. Depths to groundwater are presented below in Table One.

TABLE ONE
Summary of Groundwater Well Survey Data

Well I.D.	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	4-06-94	15.00	3.92	11.08
	8-02-94		4.10	10.90
MW-2	4-06-94	14.37	3.02	11.35
	8-02-94		3.32	11.18*
MW-3	4-06-94	14.56	3.51	11.05
	8-02-94		3.68	10.88

* = Adjusted for the presence of 0.16-feet of free-floating oil by the equation: Adjusted Groundwater Elevation = Top of Casing Elevation - Depth to Groundwater + (0.8 x Floating Hydrocarbon Thickness)

Groundwater elevation contours are presented on Figure 2. On August 2, 1994, groundwater flowed to the southeast beneath the site at a gradient of 0.01-feet/foot, which is consistent with previous findings.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling monitoring wells MW-1 and MW-3, each monitoring well was purged of five well casing volumes of water using a 12 volt electric PVC pump. Monitoring well MW-2 was not sampled because it contained 0.16-feet of free-floating hydrocarbons. Groundwater samples were then collected from monitoring wells MW-1 and MW-3 using dedicated polyethylene bailers. The samples were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials and 1-liter amber glass bottles. The samples were preserved with hydrochloric acid, capped, labeled and placed into an ice chest containing wet ice for transport to American

Environmental Network (AEN) of Pleasant Hill, California (DOHS #1172) under chain-of-custody.

The analytical results for this and previous quarters are presented below as Tables Two and Three, and the certified laboratory report and chain-of-custody form are included as Appendix A.

The well purge water was placed in 55-gallon steel 17H drums, labeled, and left on-site for temporary storage.

The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015/5030, total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 3510/8015, total and hydrocarbon oil and grease (O&G) by EPA Method 5520B&F, benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8020 and volatile organic compounds (VOCs) by EPA Method 8010.

TABLE TWO
Summary of Chemical Analysis of **GROUNDWATER** Samples
All results are in **parts per billion**

Sample I.D.	TPH Gasoline	TPH Diesel	Oil & Grease	Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW-1							
04/04/94	80	<50	<500	<0.5	<0.5	0.5	2
08/02/94	60	500	<1000	<0.5	<0.5	<0.5	<2
MW-2							
04/04/94	150	<50	6,200	0.6	1	2	6
08/02/94	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
MW-3							
04/04/94	1,200	180	<500	3	27	44	230
08/02/94	2,700	<50	<1000	6	16	70	470
EPA METHOD	5030/ 8015	3510/ 8015	5520 B&C	8020	8020	8020	8020

TABLE THREE
Summary of Chemical Analysis of **GROUNDWATER** Samples
Volatile Organic Compounds
All results in **parts per billion**

Sample I.D.	Date of Sampling	TCE	Other VOCs
MW-1	08-02-94	<0.5	<0.5
MW-2	04-04-94	0.7	<0.5
	08-02-94	NOT SAMPLED DUE TO FLOATING HYDROCARBONS	
MW-3	08-02-94	<0.5	<0.5
EPA METHOD	8010	8010	

TCE = Trichloroethene
VOCs = volatile organic compounds

4.0 CONCLUSIONS

What appeared to be free-floating unused motor oil was present in monitoring well MW-2. 2,700 and 60 parts per billion (ppb) TPH-G were present in groundwater samples collected from monitoring wells MW-3 and MW-1, respectively. 500 ppb TPH-D was present in the groundwater sample from monitoring well MW-1. Only the benzene concentration (6 ppb) in groundwater samples collected from monitoring well MW-3 exceeded the California Department of Toxic Substances Control (DTSC) maximum contaminant level (MCL) for drinking water. No BTEX was detected in the groundwater sample from monitoring well MW-1, and no VOCs were detected in groundwater samples from either monitoring well sampled.

5.0 RECOMMENDATIONS

One additional groundwater monitoring well will be installed downgradient of the site during the next quarter. ASE also recommends installing a skimmer in monitoring well MW-2 to remove the free-floating hydrocarbons in that well.

6.0 REPORT LIMITATIONS

The results of this report represent the conditions at the time of the groundwater sampling at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed for by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks and associated plumbing at the site, or for parameters not analyzed for by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CSDHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to provide environmental consulting services to you, and trust that this report meets your needs. Please feel free to call us at (510) 820-9391 if you have any questions or comments.

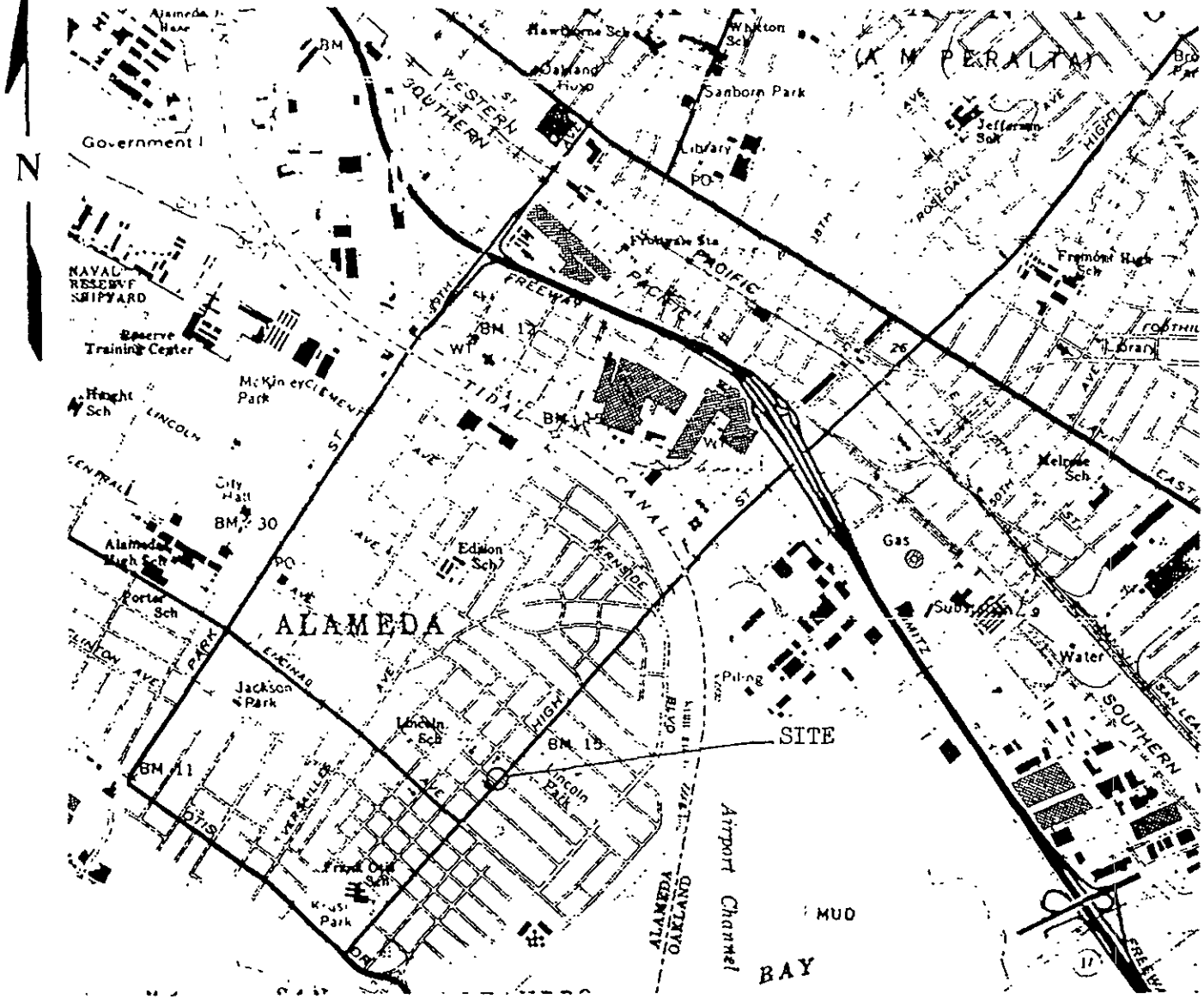
Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Robert E. Kitay, R.E.A.
Project Geologist

Attachments: Figures 1 & 2
Appendices A and B

cc: Ms. Juliet Shin, Alameda County Health Care Services Agency
Mr. Kevin Graves, RWQCB, San Francisco Bay Region

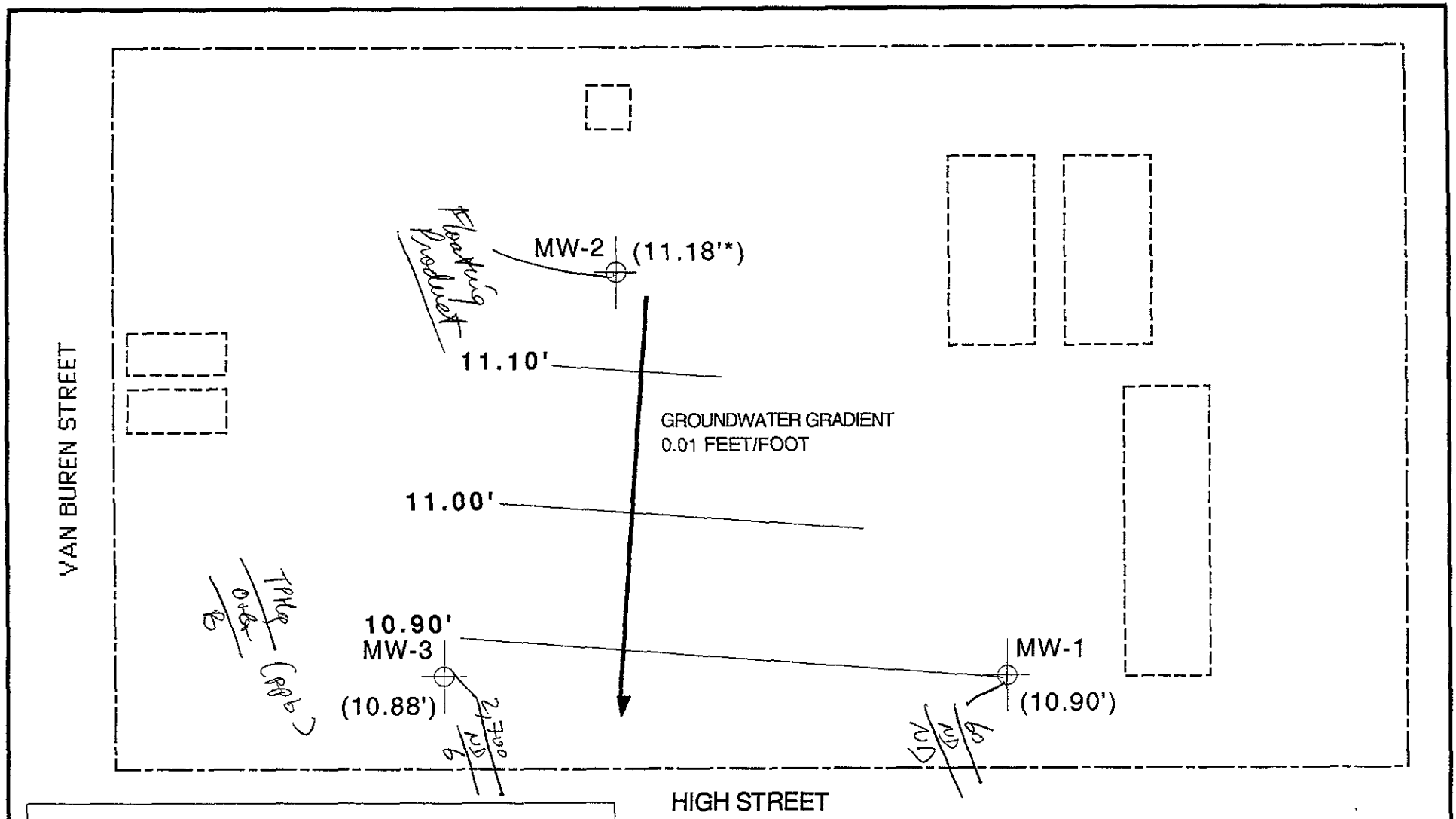


SITE LOCATION MAP

Alameda Max's
1357 High Street
Alameda, California

Aqua Science Engineers | Figure 1

BASE: Oakland East and Oakland West 7.5 minute quadrangle topographic map, dated 1980, scale 1:24,000.



LEGEND

MW-3
(10.88')
*

Groundwater Monitoring Well with groundwater elevation relative to a project datum

Elevation adjusted for presence of free-floating hydrocarbons

Former Underground Storage Tank

NORTH

SCALE: 1" = 10'

POTENTIOMETRIC SURFACE MAP - AUGUST 2, 1994

Former Alameda Max's
1357 High Street
Alameda, California

AQUA SCIENCE ENGINEERS, INC. | Figure 2

APPENDIX A

California EPA Certified Laboratory
Report of Groundwater Samples

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

AQUA SCIENCE ENGINEERS, INC
2411 OLD CROW CANYON RD. #4
SAN RAMON, CA 94583

ATTN: ROBERT KITAY
CLIENT PROJ. ID: 2607
CLIENT PROJ. NAME: FORMER ALAMEDA

REPORT DATE: 08/25/94
DATE(S) SAMPLED: 08/02/94
DATE RECEIVED: 08/03/94
AEN WORK ORDER: 9408061

PROJECT SUMMARY:

On August 3, 1994, this laboratory received 2 water sample(s).

Client requested samples be analyzed for organic parameters. Sample identification, methodologies, results and dates analyzed are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

AQUA SCIENCE ENGINEERS, INC.

DATE SAMPLED: 08/02/94
DATE RECEIVED: 08/03/94
CLIENT PROJ. ID: 2607

REPORT DATE: 08/25/94
AEN JOB NO: 9408061

Client Sample Id.	AEN Lab Id.	Purgeable Hydrocarbons as Gasoline (ug/L)	Extractable Hydrocarbons as Diesel (ug/L)	Oil & Grease (ug/L)	Hydrocarbons (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
MW-1	01	60	500	ND	ND	ND	ND	ND	ND
MW-3	02	2,700	ND	ND	ND	6	16	70	470
Reporting Limit		50	50	1000	1000	0.5	0.5	0.5	2
EPA Method:		5030 GCFID	3510 GCFID	5520B	5520F	8020	8020	8020	8020
Instrument:		F	C	ME-1	ME-1	F	F	F	F
Date Extracted:		NA	08/16/94	08/11/94	08/11/94	NA	NA	NA	NA
Date Analyzed:		08/12/94	08/17/94	08/11/94	08/11/94	08/12/94	08/12/94	08/12/94	08/12/94

NA = Not Applicable
ND = Not Detected

AQUA SCIENCE ENGINEERS, INC .

SAMPLE ID: MW-1
AEN LAB NO: 9408061-01
AEN WORK ORDER: 9408061
CLIENT PROJ. ID: 2607

DATE SAMPLED: 08/02/94
DATE RECEIVED: 08/03/94
REPORT DATE: 08/25/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	08/09/94
Bromoform	75-25-2	ND	0.5	ug/L	08/09/94
Bromomethane	74-83-9	ND	0.5	ug/L	08/09/94
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	08/09/94
Chlorobenzene	108-90-7	ND	0.5	ug/L	08/09/94
Chloroethane	75-00-3	ND	0.5	ug/L	08/09/94
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	08/09/94
Chloroform	67-66-3	ND	0.5	ug/L	08/09/94
Chloromethane	74-87-3	ND	0.5	ug/L	08/09/94
Dibromochloromethane	124-48-1	ND	0.5	ug/L	08/09/94
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	08/09/94
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	08/09/94
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	08/09/94
Dichlorodifluoromethane	75-71-8	ND	0.5	ug/L	08/09/94
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	08/09/94
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	08/09/94
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	08/09/94
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	08/09/94
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	08/09/94
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	08/09/94
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	08/09/94
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	08/09/94
Methylene Chloride	75-09-2	ND	0.5	ug/L	08/09/94
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	08/09/94
Tetrachloroethene	127-18-4	ND	0.5	ug/L	08/09/94
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	08/09/94
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	08/09/94
Trichloroethene	79-01-6	ND	0.5	ug/L	08/09/94
Trichlorofluoromethane	75-69-4	ND	0.5	ug/L	08/09/94
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	08/09/94
Vinyl Chloride	75-01-4	ND	0.5	ug/L	08/09/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AQUA SCIENCE ENGINEERS, INC .

SAMPLE ID: MW-3
AEN LAB NO: 9408061-02
AEN WORK ORDER: 9408061
CLIENT PROJ. ID: 2607

DATE SAMPLED: 08/02/94
DATE RECEIVED: 08/03/94
REPORT DATE: 08/25/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	08/09/94
Bromoform	75-25-2	ND	0.5	ug/L	08/09/94
Bromomethane	74-83-9	ND	0.5	ug/L	08/09/94
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	08/09/94
Chlorobenzene	108-90-7	ND	0.5	ug/L	08/09/94
Chloroethane	75-00-3	ND	0.5	ug/L	08/09/94
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	08/09/94
Chloroform	67-66-3	ND	0.5	ug/L	08/09/94
Chloromethane	74-87-3	ND	0.5	ug/L	08/09/94
Dibromochloromethane	124-48-1	ND	0.5	ug/L	08/09/94
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	08/09/94
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	08/09/94
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	08/09/94
Dichlorodifluoromethane	75-71-8	ND	0.5	ug/L	08/09/94
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	08/09/94
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	08/09/94
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	08/09/94
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	08/09/94
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	08/09/94
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	08/09/94
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	08/09/94
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	08/09/94
Methylene Chloride	75-09-2	ND	0.5	ug/L	08/09/94
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	08/09/94
Tetrachloroethene	127-18-4	ND	0.5	ug/L	08/09/94
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	08/09/94
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	08/09/94
Trichloroethene	79-01-6	ND	0.5	ug/L	08/09/94
Trichlorofluoromethane	75-69-4	ND	0.5	ug/L	08/09/94
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	08/09/94
Vinyl Chloride	75-01-4	ND	0.5	ug/L	08/09/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9408061

CLIENT PROJECT ID: 2607

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration that can reliably be determined during routine laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix and method dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9408061
DATE EXTRACTED: 08/11/94
DATE ANALYZED: 08/11/94
SAMPLE SPIKED: DI WATER
INSTRUMENT: ME1

GRAVIMETRIC DETERMINATION/OIL AND GREASE
METHOD SPIKE RECOVERY SUMMARY
METHOD: SM5520B (WATER MATRIX)

Analyte	Spike Added (mg/L)	Duplicate Spike Added (mg/L)	Average Percent Recovery	RPD
Oil	73.5	72.6	94	<1

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
Oil	90-102	5

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408061
DATE EXTRACTED: 08/16/94
INSTRUMENT: C

SURROGATE STANDARD RECOVERY SUMMARY
METHOD: EPA 3510 GCFID
(WATER MATRIX)

SAMPLE IDENTIFICATION			SURROGATE RECOVERY (PERCENT)
Date Analyzed	Client Id.	Lab Id.	n-Pentacosane
08/17/94	MW-1	01	88
08/17/94	MW-3	02	91

CURRENT QC LIMITS

Surrogate	Percent Recovery
n-Pentacosane	40-120

QUALITY CONTROL DATA

AEN JOB NO: 9408061
DATE EXTRACTED: 08/10/94
DATE ANALYZED: 08/10/94
SAMPLE SPIKED: DI WATER
INSTRUMENT: C

METHOD SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE WATER
METHOD: EPA 3510 GCFID

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD
Diesel	2.01	85	8

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
Diesel	65-103	12

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408061
INSTRUMENT: G

SURROGATE STANDARD RECOVERY SUMMARY
METHOD: EPA 8010
(WATER MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION Client Id.	Lab Id.	SURROGATE RECOVERY (PERCENT) Bromochloro-methane	1-Bromo-3-chloro-propane
08/09/94	MW-1	01	98	103
08/09/94	MW-3	02	96	100

CURRENT QC LIMITS

Surrogate	Percent Recovery
Bromochloromethane	78-153
1-Bromo-3-chloropropane	74-143

QUALITY CONTROL DATA

AEN JOB NO: 9408061
DATE ANALYZED: 08/08/94
SAMPLE SPIKED: 9408091-01
INSTRUMENT: G

MATRIX SPIKE RECOVERY SUMMARY
METHOD: EPA 8010
(WATER MATRIX)

Analyte	Spike Conc. (ug/L)	Average Percent Recovery	RPD
1,1-Dichloroethene	50.0	85	1
Trichloroethene	50.0	89	11
Chlorobenzene	50.0	77	8

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
1,1-Dichloroethene	40-130	18
Trichloroethene	67-136	17
Chlorobenzene	59-123	15

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408061
INSTRUMENT: F

SURROGATE STANDARD RECOVERY SUMMARY
METHOD: EPA 8020, 5030 GCFID
(WATER MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION Client Id.	Lab Id.	SURROGATE RECOVERY (PERCENT) Fluorobenzene
08/12/94	MW-1	01	95
08/12/94	MW-3	02	93

CURRENT QC LIMITS

Surrogate	Percent Recovery
Fluorobenzene	70-115

QUALITY CONTROL DATA

AEN JOB NO: 9408061
DATE ANALYZED: 08/12/94
SAMPLE SPIKED: LCS
INSTRUMENT: F

LABORATORY CONTROL SAMPLE
METHOD: EPA 8020, 5030 GCFID
(WATER MATRIX)

Analyte	Spike Added (ug/L)	Percent Recovery
Benzene	8.5	95
Toluene	32.2	94
Hydrocarbons as Gasoline	500	110

CURRENT QC LIMITS

Analyte	Percent Recovery
Benzene	65-122
Toluene	67-124
Gasoline	60-125

*** END OF REPORT ***

R-3,S-1 R-1,S-6 9408061

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(510) 820-9391 - FAX (510) 837-4853

Chain of Custody

DATE 8-2-94 PAGE 1 OF 1

SAMPLERS (SIGNATURE) (PHONE NO.)
Robert C. Kitay (510) 820-9391

PROJECT NAME Former Alameda Mart NO. 2607
ADDRESS 1357 High Street, Alameda, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-GASOLINE/BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8020)	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NUETRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC-CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY					
11A-I	MW-1	8/2	15:57	Water	9		X	X		X			X										
12A-I	MW-3	8/2	16:30	Water	9		X	X		X			X										

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
Robert E. Kitay 11:50 (signature) (time)	[signature] 11:50 (signature) (time)	[signature] 15:20 (signature) (time)	Emily Harrington 1520 (signature) (time)	
Robert E. Kitay 8-3-94 (printed name) (date)	NEIL HERREK 8-3-94 (printed name) (date)	NEIL HERREK 8/3/94 (printed name) (date)	EMILY HARRINGTON 8/3/94 (printed name) (date)	
Company- ASE	Company- AEN	Company-	Company- AEN	

APPENDIX B

Well Sampling Field Logs

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: Alameda Max's, High Street, Alameda, CA
Job #: 2545 Date of sampling: 8-2-94
Well Name: MW-1 Sampled by: RK
Total depth of well (feet): 18.14 Well diameter (inches): 2
Depth to water before sampling (feet): 4.10
Thickness of floating product if any: None
Depth of well casing in water (feet): 14.04
Number of gallons per well casing volume (gallons): ~~7.5~~ RK 9.4
Number of well casing volumes to be removed: 5
Req'd volume of groundwater to be purged before sampling (gallons): 47
Equipment used to purge the well: 12 volt PVC pump
Time Evacuation Began: 15:30 Time Evacuation Finished: 15:50
Approximate volume of groundwater purged: 47 gallons
Did the well go dry?: No After how many gallons: —
Time samples were collected: 15:57
Depth to water at time of sampling: —
Percent recovery at time of sampling:
Samples collected with: Disposable polyethylene bailer
Sample color: None (clear) Odor: None
Description of sediment in sample: None

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-1	3	40-ml clear VOA	HCl	Yes	TPH-G/BTEX
↓	3	↓	↓	↓	VOCs (EPA 8010)
↓	2	1-liter amber glass	↓	↓	TPH-D
↓	1	↓	↓	↓	Oil & Grease

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: Alameda Max's, High Street, Alameda, CA
Job #: 2545 Date of sampling: 8-2-94
Well Name: MW-3 Sampled by: RK
Total depth of well (feet): 18.84 Well diameter (inches): 2
Depth to water before sampling (feet): 3.68
Thickness of floating product if any: None
Depth of well casing in water (feet): 13.16
Number of gallons per well casing volume (gallons): 8.8
Number of well casing volumes to be removed: 5
Req'd volume of groundwater to be purged before sampling (gallons): 44
Equipment used to purge the well: 12 volt PVC pump
Time Evacuation Began: 16:05 Time Evacuation Finished: 16:25
Approximate volume of groundwater purged: 44 gallons
Did the well go dry?: No After how many gallons: —
Time samples were collected: 16:30
Depth to water at time of sampling: —
Percent recovery at time of sampling: —
Samples collected with: Dedicated polyethylene bailer
Sample color: None (clear) Odor: slight hc
Description of sediment in sample: None

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-3	3	40-ml clear VOA's	HCl	Yes	TPH-G/BTEX
↓	3	↓	↓	↓	VOCs (EPA 8010)
	2	1-liter amber glass			TPH-D
	1	↓			Oil & Grease