aqua science engineers inc.

June 20, 1996

QUARTERLY GROUNDWATER MONITORING REPORT
JUNE 6, 1996 GROUNDWATER SAMPLING
ASE JOB NO. 2607

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

REGISTERED PROFESSIONAL ENGINEER
DAVID M. SCHULTZ
No. 38738
Exp 4-97
CIVIL
STATE OF CALIFORNIA

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 June 6, 1996, quarterly groundwater sampling at the above referenced site.

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On June 6, 1996, ASE environmental specialist Scott Ferriman 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. No free-floating hydrocarbons or sheen were present on the surface of water from monitoring wells MW-1, MW-3 or MW-4. Depth to groundwater measurements are presented in Table One.

Groundwater elevation contours are presented on Figure 2. On June 6, 1996, 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, each monitoring well was purged of four well casing volumes of water using a dedicated polyethylene bailer. The pH, temperature and conductivity of the water were monitored during the purging, and samples were not collected until these parameters stabilized. Groundwater samples were then collected 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 Chromalab, Inc. of Pleasanton, California (ELAP #1094) under chain-of-custody.

The analytical results for this and previous quarters are presented in 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 DOT 17H drums, labeled, and left on-site for temporary storage.

The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 5030/8015, total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 3510/8015, total and hydrocarbon oil and grease (O&G) by Standard Method 5520 B&F, benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl t-butyl ether (MTBE) by EPA Method 8020.

4.0 CONCLUSIONS

Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-1 increased slightly this quarter. Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-3 decreased this quarter. Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-4 increased slightly this quarter. Motor oil was detected in the groundwater samples collected from monitoring wells MW-1, MW-3 and MW-4. 17 parts per billion (ppb) MTBE was detected in groundwater samples collected from monitoring well MW-3. The benzene concentration in groundwater samples collected from monitoring well MW-3 exceeded the California Department of Toxic Substance Control (DTSC) maximum contamination level (MCL) for drinking water.

5.0 RECOMMENDATIONS

The next quarterly groundwater sampling is scheduled for September 1996.

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 CAL-EPA 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,

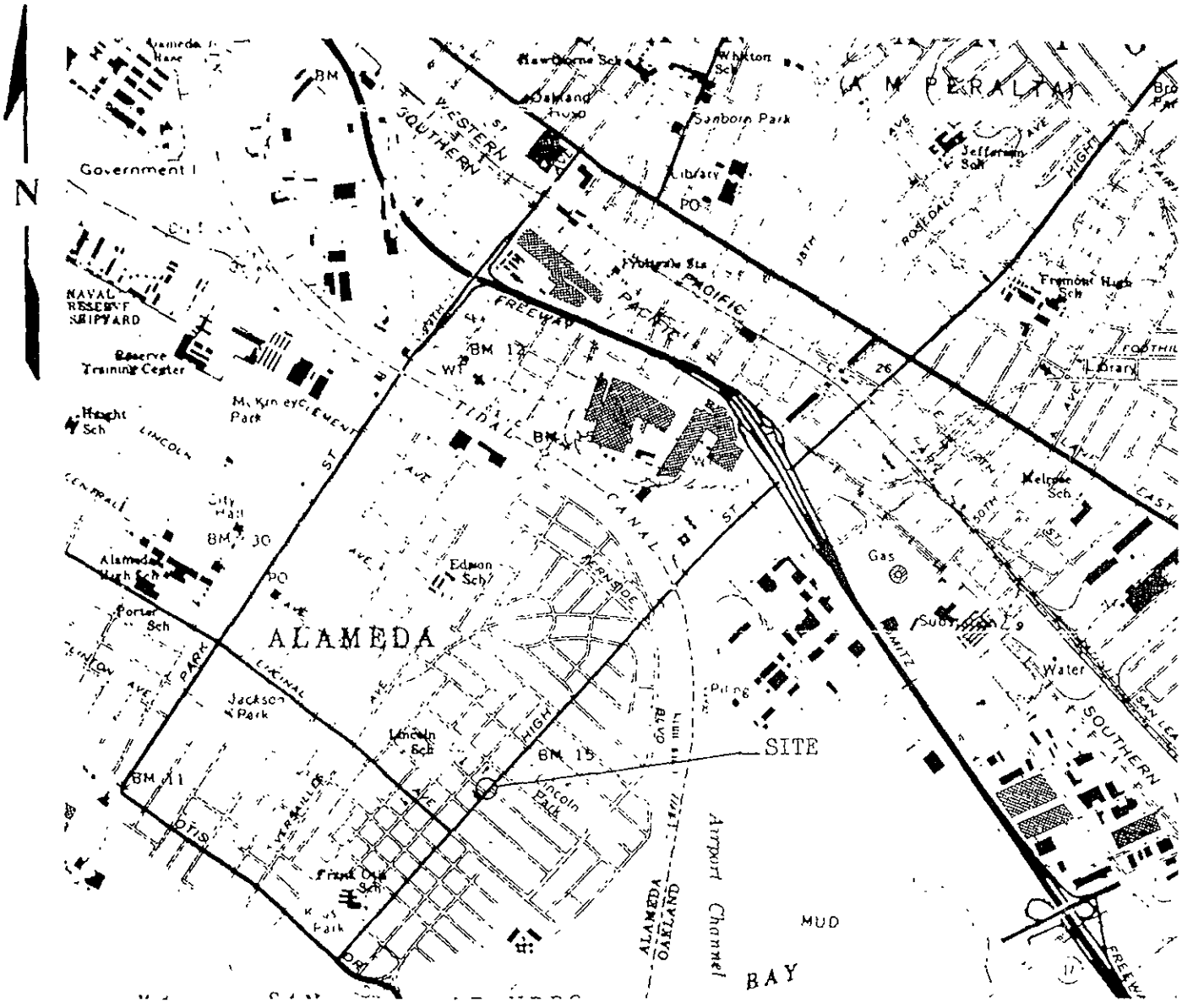
AQUA SCIENCE ENGINEERS, INC.

Scott T. Ferriman
Environmental Specialist

Attachments: Figures 1 and 2
Tables 1, 2 and 3
Appendices A and B

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

FIGURES



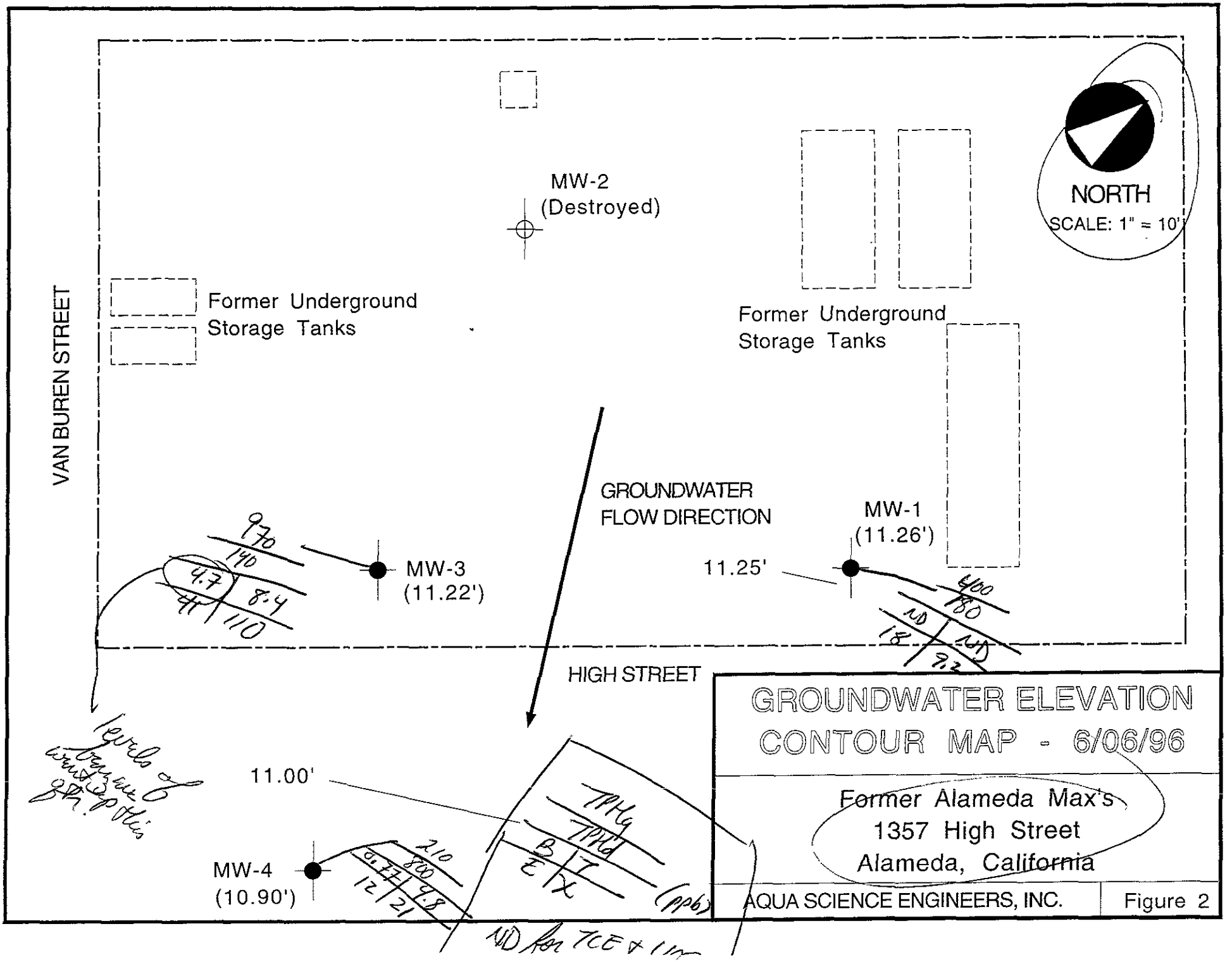
Bad copy

BASE Oakland East and Oakland West 7 5 minute quadrangle topographic map, dated 1980, scale 1 24,000

SITE LOCATION MAP

Alameda Max's
1357 High Street
Alameda, California

Aqua Science Engineers | Figure 1


MW-2
(Destroyed)
NORTH
SCALE: 1" = 10'
Former Underground
Storage Tanks
Former Underground
Storage Tanks
VAN BUREN STREET
GROUNDWATER
FLOW DIRECTION
MW-3
(11.22')
MW-1
(11.26')
11.25'
970
140
4.7
8.4
110
400
180
ND
18
ND
2.2
HIGH STREET
11.00'
MW-4
(10.90')
210
800
0.77
4.8
12
21
TPHg
TPHd
B
T
E
X
(ppb)
ND for TCE & 1,1-DCE
GROUNDWATER ELEVATION
CONTOUR MAP - 6/06/96
Former Alameda Max's
1357 High Street
Alameda, California
AQUA SCIENCE ENGINEERS, INC.
Figure 2

TABLES

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	04-06-94	15.00	3.92	11.08
	08-02-94		4.10	10.90
	10-04-94		4.42	10.58
	12-14-94		3.42	11.58
	03-16-95		3.21	11.79
	06-06-95		3.84	11.16
	09-14-95		4.18	10.82
	12-05-95		4.28	10.72
	03-11-96		3.41	11.59
	06-06-96		3.74	11.26
MW-2	04-06-94	14.37	3.02	11.35
	08-02-94		3.32	11.18*
	12-14-94		2.90	11.52*
	03-16-95		Unknown	Unknown
	06-06-95		Unknown	Unknown
	09-14-95		Unknown	Unknown
	12-05-95		3.49	10.88
	03-11-96		Unknown	Unknown
	Monitoring well MW-2 was destroyed on April 19, 1996			
MW-3	04-06-94	14.56	3.51	11.05
	08-02-94		3.68	10.88
	10-04-94		3.97	10.59
	12-14-94		3.04	11.52
	03-16-95		2.84	11.72
	06-06-95		3.44	11.12
	09-14-95		3.76	10.80
	12-05-95		3.87	10.69
	03-11-96		3.04	11.52
	06-06-96		3.34	11.22
MW-4	10-04-94	14.70	4.31	10.39
	12-14-94		3.62	11.08
	03-16-95		3.48	11.22
	06-06-95		3.86	10.84
	09-14-95		4.10	10.60
	12-05-95		4.18	10.52
	03-11-96		3.62	11.08
	06-06-96		3.80	10.90

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

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

Sample & Date	TPH Gasoline	TPH Diesel	Oil & Grease	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
MW-1								
04/04/94	80	<50	<500	<0.5	<0.5	0.5	2	---
08/02/94	60	500	<1,000	<0.5	<0.5	<0.5	<2	---
12/14/94	200	1,500	<1,000	<0.5	<0.5	6	<2	---
03/16/95	200	1,600	<500	<0.5	<0.5	3	<2	---
06/06/95	<50	680	<500	<0.5	<0.5	<0.5	<2	---
09/14/95	<50	500	<500	<0.5	<0.5	0.8	<2	---
12/05/95	69	<50	<1,000	1	6	2	12	<50
03/11/96	260	380	<5,000	<0.5	2.4	4	1.2	<2
06/06/96	**400**	**180****	**<1,000**	**<0.5**	**<0.5**	**18**	**9.2**	**<5**
MW-2								
04/04/94	150	<50	6,200	0.6	1	2	6	---
08/02/94	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS							
12/14/94	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS							
03/16/95	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS							
06/06/95	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS							
09/14/95	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS							
12/05/95	110	<50	2,000*	<0.5	<0.5	<0.5	<2	<50
03/11/96	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS Monitoring well MW-2 was destroyed on April 19, 1996							
MW-3								
04/04/94	1,200	180	<500	3	27	44	230	---
08/02/94	2,700	<50	<1,000	6	16	70	470	---
12/14/94	2,600	80	<1,000	9	30	78	430	---
03/16/95	1,200	300	<500	4	16	38	270	---
06/06/95	500	300	<500	2	1	13	61	---
09/14/95	730	300	<500	3	5	28	94	---
12/05/95	360	<50	<1,000	3	5	8	33	<50
03/11/96	2,400	490	<5,000	<0.5	15	44	230	<2
06/06/96	**970**	**140****	**<1,000**	**4.7**	**8.4**	**41**	**110**	**17**

TABLE TWO (continued)
Summary of Chemical Analysis of GROUNDWATER Samples
All results are in parts per billion

Sample & Date	TPH Gasoline	TPH Diesel	Oil & Grease	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
MW-4								
10/04/94	500	200	<1,000	2	19	14	70	---
12/14/94	1,500	200	<1,000	8	37	68	190	---
03/16/95	500	300	<500	3	5	23	41	---
06/06/95	1,600	620	<500	5.9	48	83	240	---
09/14/95	2,900	300	600	13	79	180	450	---
12/05/95	1,500	500	<1,000	9	27	72	130	<50
03/11/96	**340**	**220**	**<5,000**	**<0.5**	**2.3**	**13**	**17**	**<2**
06/06/96	**210**	**800****	**<1,000**	**0.77**	**4.8**	**12**	**21**	**<5**
EPA METHOD	5030/ 8015M	3510/ 8015M	5520 B&F	8020	8020	8020	8020	8020

Notes:
MTBE = Methyl t-butyl ether
--- = Not analyzed
* = Hydrocarbon oil and grease; total oil and grease is 3,000 ppb
** = TPH as Diesel was characterized as Motor Oil

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
	12-14-94	<0.5	<0.5
	03-16-95	<0.5	<0.5
	06-06-95	<0.5	<0.5
	12-05-95	<0.5	<0.5-2
MW-2	04-04-94	0.7	<0.5
	08-02-94	NOT SAMPLED DUE TO FLOATING HYDROCARBONS	
	12-14-94	NOT SAMPLED DUE TO FLOATING HYDROCARBONS	
	03-16-95	NOT SAMPLED DUE TO FLOATING HYDROCARBONS	
	06-06-95	NOT SAMPLED DUE TO FLOATING HYDROCARBONS	
	12-05-95	<0.5	<0.5-2
	Monitoring well MW-2 was destroyed on April 19, 1996		
MW-3	08-02-94	<0.5	<0.5
	12-14-94	<0.5	<0.5
	03-16-95	<0.5	<0.5
	06-06-95	<0.5	<0.5
	12-05-95	<0.5	<0.5-2
MW-4	10-04-94	<0.5	<0.5
	12-14-94	<0.5	<0.5
	03-16-95	<0.5	<0.5
	06-06-95	<0.5	<0.5
	12-05-95	<0.5	<0.5-2
EPA METHOD		8010	8010

TCE = Trichloroethene
VOCs = volatile organic compounds

APPENDIX A

California EPA Certified Laboratory
Report of Groundwater Samples

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1996 Submission #: 9606595

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

Attn: SCOTT FERRIMAN

RE: Analysis for project FORMER ALAMEDA MAX, number 2607.

REPORTING INFORMATION

Samples were received cold and in good condition on June 7, 1996. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

Motor oil was found in sample MW-1.
Motor oil was found in sample MW-3.
Motor oil was found in sample MW-4.

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1996 *Submission #:* 9606595

AQUA SCIENCE ENGINEERS INC

Atten: SCOTT FERRIMAN

Project: FORMER ALAMEDA MAX *Project#:* 2607
Received: June 7, 1996

re: 3 samples for TPH - Diesel analysis.
Method: *EPA 3510/8015M*

Matrix: WATER *Extracted:* June 11, 1996
Sampled: June 6, 1996 *Run#:* 1684 *Analyzed:* June 12, 1996

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
87494	MW-1	180	50	N.D.	88.5	1
	Note: Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard.					
87495	MW-3	140	50	N.D.	88.5	1
	Note: Hydrocarbon reported does not match the pattern of our Diesel standard.					
87496	MW-4	800	50	N.D.	88.5	1
	Note: Hydrocarbon reported does not match the pattern of our Diesel standard.					

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 13, 1996 *Submission #:* 9606595

AQUA SCIENCE ENGINEERS INC

Atten: SCOTT FERRIMAN

Project: FORMER ALAMEDA MAX *Project#:* 2607
Received: June 7, 1996

re: 3 samples for Oil and Grease analysis.
Method: *5520 B&F*

Matrix: WATER *Extracted:* June 12, 1996
Sampled: June 6, 1996 *Run#:* 1692 *Analyzed:* June 12, 1996

Spl#	CLIENT SPL ID	OIL & GREASE (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
87494	MW-1	N.D.	1.0	N.D.	92.0	1
87495	MW-3	N.D.	1.0	N.D.	92.0	1
87496	MW-4	N.D.	1.0	N.D.	92.0	1

Carolyn House
Extractions Supervisor

Chip Poalinelli
Operations Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1996 *Submission #:* 9606595

AQUA SCIENCE ENGINEERS INC

Atten: SCOTT FERRIMAN

Project: FORMER ALAMEDA MAX *Project#:* 2607
Received: June 7, 1996

re: One sample for Gasoline and BTEX analysis.
Method: *EPA 5030/8015M/8020*

Client Sample ID: **MW-1**
Spl#: 87494 *Matrix:* WATER
Sampled: June 6, 1996 *Run#:* 1742 *Analyzed:* June 10, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	400	50	N.D.	85.2	1
BENZENE	N.D.	0.50	N.D.	98.6	1
TOLUENE	N.D.	0.50	N.D.	95.8	1
ETHYL BENZENE	18	0.50	N.D.	96.5	1
XYLENES	9.2	0.50	N.D.	97.1	1
MTBE	N.D.	5.0	N.D.	78.9	1

June Zhao
Chemist

Marianne Alexander
Gas/BTEX Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1996 *Submission #:* 9606595

AQUA SCIENCE ENGINEERS INC

Atten: SCOTT FERRIMAN

Project: FORMER ALAMEDA MAX *Project#:* 2607
Received: June 7, 1996

re: One sample for Gasoline and BTEX analysis.
Method: *EPA 5030/8015M/8020*

Client Sample ID: **MW-3**
Spl#: 87495 *Matrix:* WATER
Sampled: June 6, 1996 *Run#:* 1742 *Analyzed:* June 11, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	970	50	N.D.	85.2	1
BENZENE	4.7	0.50	N.D.	98.6	1
TOLUENE	8.4	0.50	N.D.	95.8	1
ETHYL BENZENE	41	0.50	N.D.	96.5	1
XYLENES	110	0.50	N.D.	97.1	1
MTBE	17	5.0	N.D.	78.9	1

June Zhao
Chemist

Marianne Alexander
Gas/BTEX Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1996 *Submission #:* 9606595

AQUA SCIENCE ENGINEERS INC

Atten: SCOTT FERRIMAN

Project: FORMER ALAMEDA MAX *Project#:* 2607
Received: June 7, 1996

re: One sample for Gasoline and BTEX analysis.
Method: *EPA 5030/8015M/8020*

Client Sample ID: MW-4
Spl#: 87496 *Matrix:* WATER
Sampled: June 6, 1996 *Run#:* 1742 *Analyzed:* June 11, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	210	50	N.D.	85.2	1
BENZENE	0.77	0.50	N.D.	98.6	1
TOLUENE	4.8	0.50	N.D.	95.8	1
ETHYL BENZENE	12	0.50	N.D.	96.5	1
XYLENES	21	0.50	N.D.	97.1	1
MTBE	N.D.	5.0	N.D.	78.9	1

June Zhao
Chemist

Marianne Alexander
Gas/BTEX Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

28182

595/87494-87496

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

Chain of Custody

DATE 6-6-96 PAGE 1 OF 1

SAMPLERS (SIGNATURE) (PHONE NO.)
Scott Ferriman 510-820-9371

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

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
5-Day

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-GASOLINE/BTEX/MTBE (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
MW-1	6-6-96	14:30	water	5		X	X					X					
MW-3	↓	15:40	↓	↓		X	X					X					
MW-4	↓	13:36	↓	↓		X	X					X					

SUBM #: 9606595 REP: MV
CLIENT: ASE
DUE: 06/14/96
REF #:28182

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
Scott Ferriman 10:00	[signature]	[signature] 1945	Minnie Park 1945	✓
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
Scott Ferriman 6-7-96	[signature] 6-7-96	Marcus 6-7-96	Minnie Park 6-7-96	
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	
Company- ASE, Inc.	Company- [illegible]	Company- Chromalab	Company- Chromalab	

APPENDIX B

Well Sampling Field Logs

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: Former Alameda Max, 1357 High Street, Alameda, CA
Job #: 2607 Date of sampling: 6-6-96
Well Name: MW-1 Sampled by: SF
Total depth of well (feet): 18.14 Well diameter (inches): 4"
Depth to water before sampling (feet): 3.74
Thickness of floating product if any: none
Depth of well casing in water (feet): 14.4
Number of gallons per well casing volume (gallons): 9.5
Number of well casing volumes to be removed: 4
Req'd volume of groundwater to be purged before sampling (gallons): 38
Equipment used to purge the well: Dedicated Poly Bailer
Time Evacuation Began: 13:45 Time Evacuation Finished: 14:25
Approximate volume of groundwater purged: 38
Did the well go dry?: no After how many gallons: —
Time samples were collected: 14:30
Depth to water at time of sampling: 3.76
Percent recovery at time of sampling: 99%
Samples collected with: Dedicated Poly Bailer
Sample color: Clear Odor: Slight HC Odor
Description of sediment in sample: none

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1	72.2	7.51	668
2	72.1	7.39	682
3	72.1	7.32	691
4	72.0	7.31	694

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-	3	40 ml VOAs	HCl	Yes	TPH-g/BTEX/MTBE
↓	1	1 L Amber	—	↓	TPH-D
	1	1 L Amber	HCl		O+G BF

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: Former Alameda Max, 1357 High Street, Alameda, CA
Job #: 2607 Date of sampling: 6-6-96
Well Name: MW-3 Sampled by: SF
Total depth of well (feet): 16.84 Well diameter (inches): 4"
Depth to water before sampling (feet): 3.34
Thickness of floating product if any: none
Depth of well casing in water (feet): 13.5
Number of gallons per well casing volume (gallons): 8.9
Number of well casing volumes to be removed: 4
Req'd volume of groundwater to be purged before sampling (gallons): 36
Equipment used to purge the well: Dedicated Poly Bailer
Time Evacuation Began: 14:40 Time Evacuation Finished: 15:30
Approximate volume of groundwater purged: 36
Did the well go dry?: no After how many gallons: —
Time samples were collected: 15:40
Depth to water at time of sampling: 3.38
Percent recovery at time of sampling: 99%
Samples collected with: Dedicated Poly Bailer
Sample color: Clear Odor: Moderate HC Odor
Description of sediment in sample: none

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1	72.1	7.93	324
2	71.9	7.53	390
3	71.9	7.41	407
4	71.9	7.39	712

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-	3	40 ml VOAs	HCl	Yes	TPH-g/BTEX/MTBE
↓	1	1 L Amber	—	↓	TPH-D
	1	1 L Amber	HCl		O+G BF

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: Former Alameda Max, 1357 High Street, Alameda, CA
Job #: 2607 Date of sampling: 6-6-96
Well Name: MW-4 Sampled by: SF
Total depth of well (feet): 13.12 Well diameter (inches): 2"
Depth to water before sampling (feet): 3.80
Thickness of floating product if any: none
Depth of well casing in water (feet): 9.32
Number of gallons per well casing volume (gallons): 1.6
Number of well casing volumes to be removed: 4
Req'd volume of groundwater to be purged before sampling (gallons): 6
Equipment used to purge the well: Dedicated Poly Bailer
Time Evacuation Began: 13:22 Time Evacuation Finished: 13:34
Approximate volume of groundwater purged: 6
Did the well go dry?: no After how many gallons: —
Time samples were collected: 13:36
Depth to water at time of sampling: 3.81
Percent recovery at time of sampling: 100%
Samples collected with: Dedicated Poly Bailer
Sample color: Clear Odor: Slight HC odor
Description of sediment in sample: none

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1	72.2	7.26	337
2	72.1	7.19	356
3	71.9	7.15	362
4	71.9	7.12	364

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-	3	40 ml VOAs	HCl	Yes	TPH-g/BTEX/MTBE
↓	1	1 L Amber	—	↓	TPH-D
	1	1 L Amber	HCl		O+G BF