

A REPORT DOCUMENTING THE
PURGING AND SAMPLING OF
THREE GROUNDWATER MONITORING
WELLS ON TWO CONSECUTIVE QUARTERS
AND THE DETERMINATION OF GROUNDWATER
GRADIENT FOR SIX CONSECUTIVE MONTHS:

ALAMEDA GOLF COURSE
ONE MEMORIAL CLUBHOUSE DRIVE
ALAMEDA, CALIFORNIA

prepared by:

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ENVIRONMENTAL TECHNICAL SERVICES
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Senior Environmental Specialist

3-18-93

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1.0 INTRODUCTION

The following report documents the sampling of three groundwater monitoring wells and the determination of groundwater gradient at the Alameda Golf Course, One Memorial Clubhouse Drive, Alameda, California.

Groundwater was sampled on two consecutive quarters and groundwater gradient determined for six consecutive months.

The work was performed in response to the discovery of petroleum hydrocarbons beneath the site and has been requested by the Alameda County Environmental Health Department, Hazardous Materials Division.

2.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

2.1 TANK REMOVAL

One July 10, 1991, one 500-gallon and one 125-gallon gasoline underground storage tanks were removed from the subject site. Groundwater was encountered at 5 feet within the tank pit excavation. Therefore, soil samples were collected from the tank pit wall vadose/saturated capillary zone and were analyzed for Total Petroleum Hydrocarbons as Gasoline with benzene, toluene, ethylbenzene, and total xylenes (TPH-G, BTEX, EPA Method 5030/8020).

2.2 EXCAVATION OF CONTAMINATED SOIL

The excavation and stockpiling of contaminated soils was performed the same day by Zaccor Corporation. Confirmatory soil samples were collected subsequent to the excavation and were found to be without detectable concentrations of previously noted contaminants, with the exception of sample #6. The excavation of soil within this area was limited by the presence of an existing monitoring well.

Results of these analyses are located in Table 1A, 1B, and 1C.

2.3 ORIGINAL TANK REMOVAL, ANALYTICAL RESULTS

TABLE 1A
TANK PIT SOIL ANALYTICAL RESULTS
Total Petroleum Hydrocarbons as Gasoline
with Benzene, Toluene, Ethylbenzene and Xylenes
July 10, 1991

TPHg and BTEX results reported in ppm

Sample #	TPH-G	B	T	E	X
2	960	3.5	0.10	3.0	13
4	ND	0.011	ND	ND	0.005
5	ND	ND	ND	ND	ND
6	3.0	0.030	0.006	0.023	0.059
7	ND	ND	ND	ND	ND
8	ND	ND	ND	ND	ND

TABLE 1B
STOCKPILE ANALYTICAL RESULTS
JULY 10, 1991

TPHg and BTEX results reported in ppm

Composite Sample #	TPH-G	B	T	E	X
1A, 1B, 1C	2000	1.2	2.8	2.6	26
3A-3C	250	0.52	0.45	0.65	5.4
9A-9D	ND	ND	ND	ND	ND
10A-10D	11	0.13	0.48	0.29	1.9

TABLE 1C
GROUNDWATER ANALYTICAL RESULTS
JULY 10, 1991

Results in ug/L

Sample #	TPH-G	B	T	E	X
TPW-1	8,200	210	ND	270	1,200

ND= Not detected at lower detection limit for this compound

3.0 SCOPE OF SERVICES

3.1 Groundwater Purging & Sampling

The three existing groundwater monitoring wells were purged and sampled on September 5, 1992 and January 11, 1993. The wells were purged using a clean stainless steel bailer (1.5" diameter by 3' length). Subsequent to purging each well was sampled using a clean stainless steel bailer. A separate bailer was dedicated to each well for the sampling event. At consistent intervals throughout sampling groundwater parameters (pH, conductivity, salinity, and temperature) were monitored to evaluate stabilization of the wells.

A water sample was decanted from the sampling bailer into three one-liter amber bottles and three 40-ml volatile organics analysis vials (VOAs) to a positive meniscus eliminating headspace.

The samples were transported to a Certified Hazardous Waste Analytical Laboratory under chain of custody for analysis.

Refer to Appendix D, Groundwater Development Report.

3.2 Groundwater Analysis

Each groundwater sample was analyzed for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, and total xylenes (TPHg & BTEX, using EPA Method 5030/602).

3.3 Groundwater Analytical Results

TABLE II
GROUNDWATER ANALYTICAL RESULTS
FIRST QUARTER SAMPLING
September 5, 1992

Results for TPHg & BTEX reported in ug/L

<u>Sample #</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>Lead</u>
MW-1	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	6.3
MW-3	ND	ND	ND	ND	ND	ND

ND = Not detected at lower detection limit for this compound

3.3 Groundwater Analytical Results (cont.)

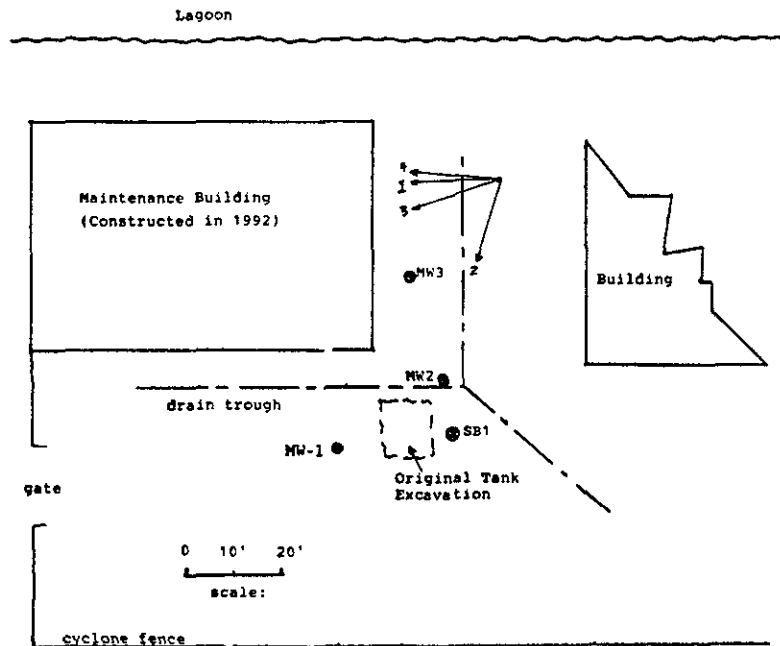
TABLE III
GROUNDWATER ANALYTICAL RESULTS
SECOND QUARTER
JANUARY 11, 1993

Results for TPHg & BTEX reported in ug/L

<u>Sample #</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>Lead</u>
MW-1	ND	ND	ND	ND	ND	NA
MW-2	ND	ND	ND	ND	ND	NA
MW-3	ND	ND	ND	ND	ND	NA

ND = Not detected at lower detection limit for this compound
 NA = Not analyzed for this compound

3.4 Groundwater Gradient



GROUNDWATER GRADIENT DATA

Map No.	Date	E1(1)	Flow(2)	Grad(3)
1	10/14/92	-	181	.080
2	11/10/92	92.18	107	.015
3	12/11/92	92.17	164	.016
4	01/11/93	92.18	184	.004

NOTES

- (1) Water elev. in MW1
- (2) Flow azimuth (° E of N)
- (3) Gradient (ft/ft)

4.0 REPORT

Please forward copies of this report, chain of custody documentation, and laboratory analytical reports to the San Francisco Regional Water Quality Control Board, and the Alameda County Department of Environmental Health Hazardous Materials Division.

The following addresses have been included for your convenience:

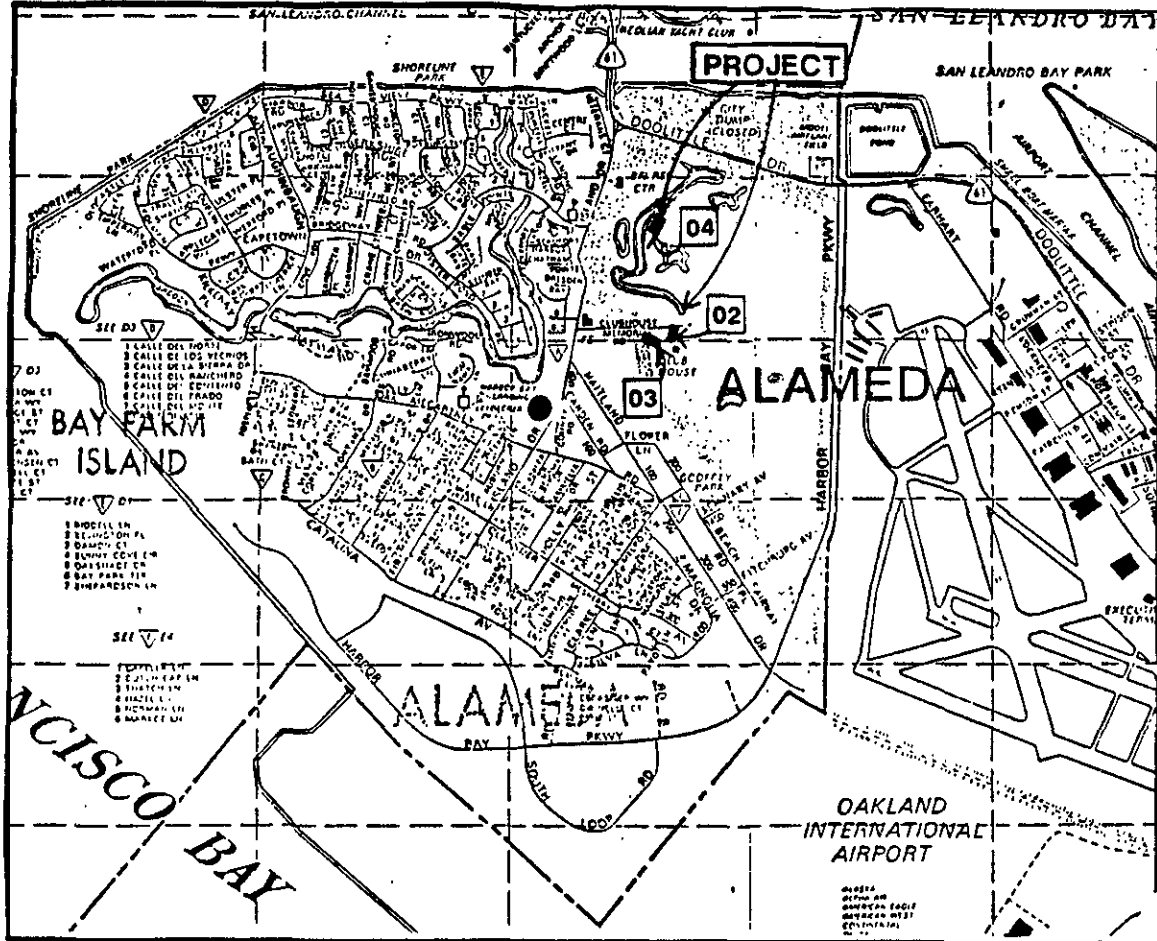
Water Quality Control Board
San Francisco Bay Region
2101 Webster Street
Room 500
Oakland, CA 94621

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

APPENDIX A

MAPS

VICINITY MAP



ENVIRONMENTAL
TECHNICAL
SERVICES

Site:

**ALAMEDA GOLF COURSE
1 MEMORIAL CLUB HOUSE DRIVE
ALAMEDA, CALIFORNIA**

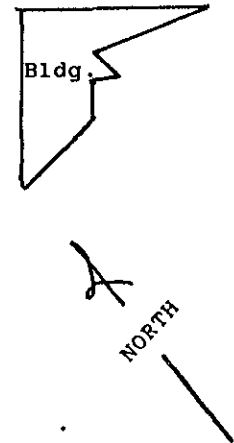
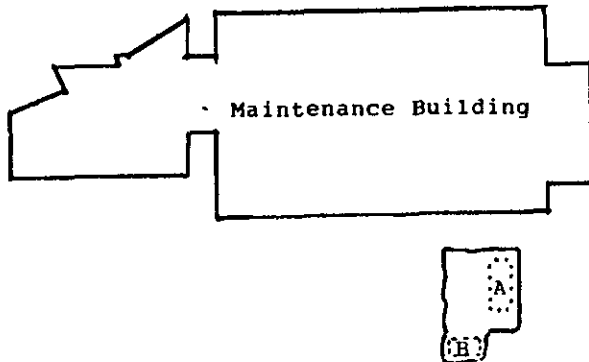
Figure 1.

Site Location Map

ENVIRONMENTAL
TECHNICAL
SERVICES

at: Alameda Golf Course, 1 Memorial Club House Drive, Alameda CA.

7/10/91



KEY

(A) 500 gal gasoline tank

(B) 125 gal gasoline tank

0 12.5 25
Scale

ENVIRONMENTAL
TECHNICAL
SERVICES

Site:
ALAMEDA GOLF COURSE
1 MEMORIAL CLUB HOUSE DRIVE
ALAMEDA, CALIFORNIA

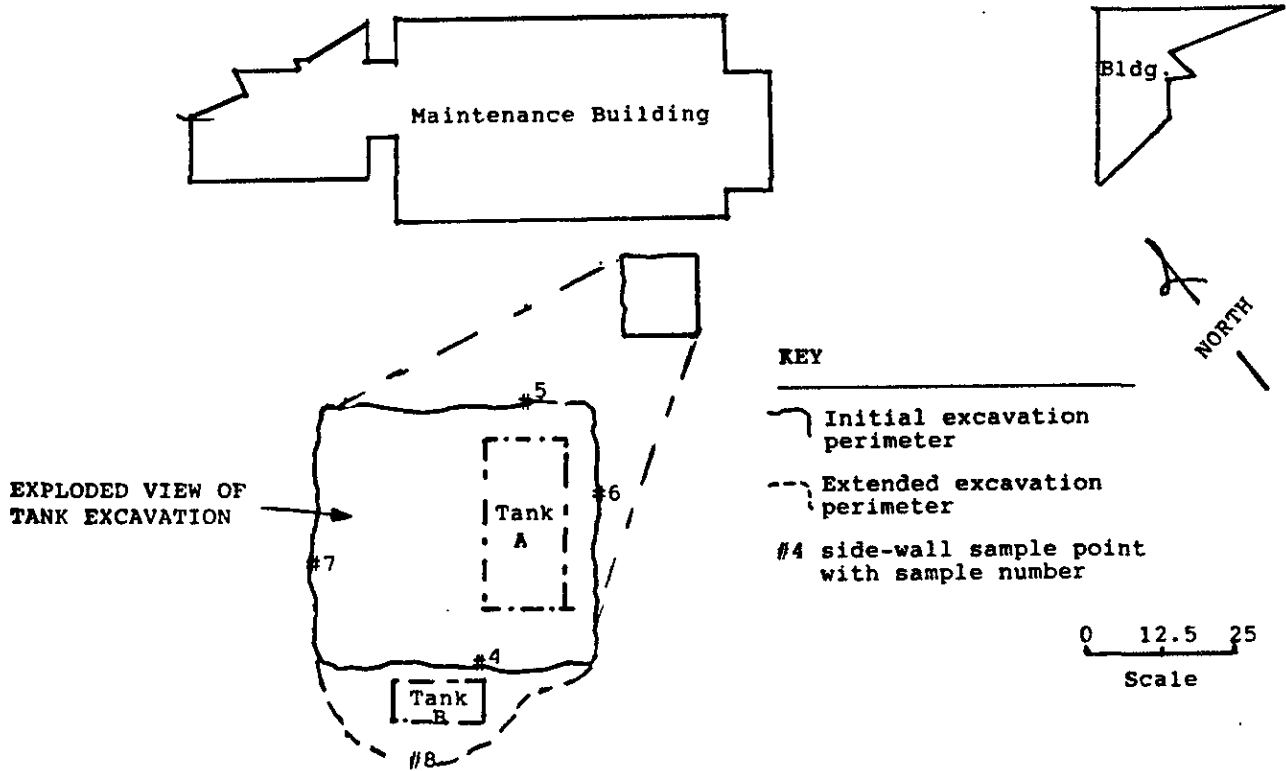
Figure 2.

Tank Location Map

ENVIRONMENTAL
TECHNICAL
SERVICES

at: Alameda Golf Course, 1 Memorial Club House Drive, Alameda CA.

7/10/91



ENVIRONMENTAL
TECHNICAL
SERVICES

Site: **ALAMEDA GOLF COURSE
1 MEMORIAL CLUBHOUSE DRIVE
ALAMEDA, CALIFORNIA**

Figure 3.

Excavation/Sampling Map

APPENDIX B
GROUNDWATER ANALYTICAL RESULTS
FIRST QUARTER



Laboratory Report

**Soil and Water
Environmental
Laboratory**

Client: Environmental Tech. Services
1548 Jacob Ave.
San Jose CA 95118
Report Date: 09/29/92

Drinking Water
Waste Water - Asbestos
Hazardous Waste - Soil
Calderon Testing - Air

Sample Site: Alameda Golf Course
Alameda, CA
Date Received: 09/05/92

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

MW ALAM Golf

Analysis Requested: Total Hydrocarbons - Gas
BTEX
Procedure: EPA 5030
EPA 602
Date Analyzed: 09/05/92

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
2492-ET2-C	MW-1	Water/TPH-G	*	50 ppb
2492-ET2-C	MW-1	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
2492-ET2-D	MW-2	Water/TPH-G	*	50 ppb
2492-ET2-D	MW-2	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
2492-ET2-E	MW-3	Water/TPH-G	*	50 ppb
2492-ET2-E	MW-3	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

* No detectable amount @ detection limit

Analyst Signature

Soil and Water Environmental Laboratory
 14072 West Park Avenue
 Boulder Creek, CA 95006
 (408) 338-3053/4466

CHAIN - OF - CUSTODY

Project Number		Site Name and Address			Type and Number of Containers	Analysis Required					Laboratory ID	Comments
MWA1G018		Clubhouse Dr Claremont Golf Course				TPH-G + BTEX	TPH-D + BTEX	TOG	TOTAL LEAD			
Witnessing Agency/Inspector Name and Date												
Subject: Sher/Clare Co Env Hlth Dept												
Sample ID	Date	Time	Matrix	Sample Location								
MW1	9/5/92		H2O	2-40ml vocs vials	/			/			/	Not enough
MW2	↓		↓	↓	/			/			/	Not for lead
MW3	↓		↓	↓	/			/			/	
Relinquished by: (Signature)				Date/Time	Received by: (Signature)			Date/Time		Remarks:		
Helen Mankin				9-5-92								
Relinquished by: (Signature)				Date/Time	Received by: (Signature)			Date/Time		COMPANY: ETS		
										ADDRESS: .		
Relinquished by: (Signature)				Date/Time	Received by Lab: (Signature)			Date/Time		PHONE: FAX:		
					P. J. ...			9/5/92 6:45				

Laboratory Report

S&W
Soil and Water
Environmental
Laboratory

Drinking Water
Waste Water o Asbestos
Hazardous Waste - Soil
Calderon Testing - Air

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

Client
Environmental Tech. Services
1548 Jacob Ave. e. Rd.
San Jose, CA 95118

Report Date
10-01-92

Sample Site
Alameda Golf Course
Alameda, CA

Date Received
9-17-92

Analysis Requested
Heavy Metals

Procedure
EPA-6010/7000

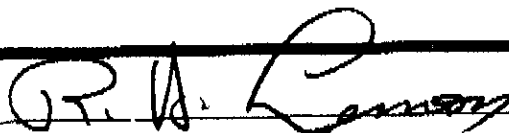
Date Analyzed
9-21-92

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
2492-ET2	C	MW-1	Total Lead	< 5.0 ppb
	D	MW-2	Total Lead	6.3 ppb
	E	MW-3	Total Lead	< 5.0 ppb

MDL- 5.00 ppb

This analysis performed for S & W Laboratory by West Laboratory
Davis, California

Analyst Signature



Soil and Water Environmental Laboratory
 14072 West Park Avenue
 Boulder Creek, CA 95006
 (408) 338-3053/4466

CHAIN - OF - CUSTODY

Project Number		Site Name and Address				Type and Number of Containers	Analysis Required					Laboratory ID	Comments
Witnessing Agency/Inspector Name and Date		Sample ID	Date	Time	Matrix		Sample Location	TPH-G + BTEX	TPH-D + BTEX	TOC	Total Lead	Condition of Samples 1 - Good 2 - See Reverse	
MWALG015		Memorial Club House & Clam Shell House Alameda											
Clam. Co Env Health Dept / Shen													
MW-1	9/17/92				H2O	2 Liters Amber				✓			
MW-2	9/17/92				↓	↓				✓		Additional work for lead analysis	
MW-3	9/17/92				↓	↓				✓		(9-5-92)	
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks:							
<i>Helen M. [Signature]</i>		9/17/92											
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	COMPANY: ADDRESS:							
Relinquished by: (Signature)		Date/Time	Received by Lab: (Signature)		Date/Time	PHONE: FAX:							
			<i>R. W. [Signature]</i>		9/17/92								

APPENDIX C
GROUNDWATER ANALYTICAL RESULTS
SECOND QUARTER



Laboratory Report

**Soil and Water
Environmental
Laboratory**

Drinking Water
Waste Water - Asbestos
Hazardous Waste - Soil
Calderon Testing - Air

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

Client: Environmental Tech. Services
1548 Jacob Ave.
San Jose CA 95118
Report Date: 01/15/93

Sample Site: Alameda Golf Course
1 Club House Memorial Dr.
Date Received: 01/12/93

EMWALGLF

Analysis Requested	Procedure	Date Analyzed
Total Hydrocarbons - Gas	EPA 8030	01/14/93
Total Hydrocarbons - Diesel	EPA 3510	
Total Oil & Grease	EPA 803e	
BTEX	EPA 602	

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
0123-ET3-A	MW-1	Water/TPH-B	*	50 ppb
0123-ET3-A	MW-1	Water/TPH-D	*	50 ppb
0123-ET3-A	MW-1	Water/TOG	*	5 ppm
0123-ET3-A	MW-1	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

0123-ET3-B	MW-2	Water/TPH-B	*	50 ppb
0123-ET3-B	MW-2	Water/TPH-D	*	50 ppb
0123-ET3-B	MW-2	Water/TOG	*	5 ppm
0123-ET3-B	MW-2	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

0123-ET3-C	MW-3	Water/TPH-B	*	50 ppb
0123-ET3-C	MW-3	Water/TPH-D	*	50 ppb
0123-ET3-C	MW-3	Water/TOG	*	5 ppm
0123-ET3-C	MW-3	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

* No detectable amount @ detection limit

Analyst Signature

CHAIN - OF - CUSTODY

Project Number		Site Name and Address				Type and Number of Containers	Analysis Required					Laboratory ID	Comments	
Witnessing Agency/Inspector Name and Date		Sample ID	Date	Time	Matrix		Sample Location	TPH-G + BTEX	TPH-D + BTEX	TOC				Condition of Samples 1 - Good 2 - See Reverse
2 MWALCLF		Alameda Alameda COIF course Lung House Memorial Dr											0123-ET-3	
Alameda Co Env Health Serv. <i>Julyst Shen</i>														
MW-1	1/11/93				H2O	groundwater	✓						A	
MW-2	↓				↓	↓	✓						B	
MW-3	↓				↓	↓	✓						C	
Relinquished by: (Signature) <i>Beloy M...</i>		Date/Time 1/11/93		Received by: (Signature) ETS FRIDGE		Date/Time 1/11/93 4:30		Remarks:						
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		COMPANY: ADDRESS:						
Relinquished by: (Signature) <i>...</i>		Date/Time 1/12/93		Received by Lab: (Signature) R. H. L...		Date/Time 1/12/93 2:00		PHONE: FAX:						

APPENDIX D
GROUNDWATER DEVELOPMENT REPORTS

**MONITORING WELL SAMPLING DATA
MONITORING WELL NO.1**

PROJECT NAME:	WELL #
ALAMEDA GOLF COURSE	MW-1

DATE: JANUARY 11, 1993

NAME:	TIME BEGAN:
Helen Mawhinney	12:45

DEPTH OF WELL (FT.)	DEPTH OF WATER (FT.)	WELL DIAM.
9.8	3.2	2"

TIME	GALLONS	DH	TEMP.	COND.
1:00	1	6.81	59.1	15.40
1:05	2	6.85	59.3	15.40
1:10	3	6.87	59.3	15.38
1:20	4	6.87	59.4	15.37
1:25	5	6.88	59.4	15.37
1:34	7	6.88	59.4	15.37

VOLUME EVACUATED	PURGING EQUIP.	SAMPLING EQUIP.
8 gallons	Stainless Steel Bailer	Stainless Steel Bailer

DEPTH TO WATER UPON COMPLETION OF SAMPLING
Not measured. Recharge very slow.

SHEEN	FLOATING PRODUCT	SAMPLE COLOR	ODOR
no	no	grey	no

SEDIMENT/FOREIGN MATTER: very little silt

SAMPLE ID#	ANALYSIS	LABORATORY
MW-1	TPHg, TOG	S & W Lab.

SAMPLE CONTAINERS
3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA
MONITORING WELL NO.2

PROJECT NAME: ALAMEDA GOLF COURSE WELL # MW-2

DATE: JANUARY 11, 1993

NAME: Helen Mawhinney TIME BEGAN: 1:40

DEPTH OF WELL (FT.) 9.8 DEPTH OF WATER (FT.) 1.7 WELL DIAM. 2"

<u>TIME</u>	<u>GALLONS</u>	<u>pH</u>	<u>TEMP.</u>	<u>COND.</u>
1:40	1	7.02	60.7	17.70
1:45	2	7.02	60.7	17.70
1:55	3	7.02	60.8	17.69
2:00	4	7.02	60.9	17.68
2:05	5	7.02	60.9	17.68
2:07	7	7.02	60.9	17.68

VOLUME EVACUATED 8 gallons PURGING EQUIP. Stainless Steel Bailer SAMPLING EQUIP. Stainless Steel Bailer

DEPTH TO WATER UPON COMPLETION OF SAMPLING
Not measured.

SHEEN no FLOATING PRODUCT no SAMPLE COLOR grey ODOR no

SEDIMENT/FOREIGN MATTER: very little silt

SAMPLE ID# MW-2 ANALYSIS TPHg, TOG LABORATORY S & W Lab

SAMPLE CONTAINERS
3/ 40-ml VOAs, 2 Liters

**MONITORING WELL SAMPLING DATA
MONITORING WELL NO.3**

PROJECT NAME:	WELL #
ALAMEDA GOLF COURSE	MW-3

DATE: JANUARY 11, 1993

NAME:	TIME BEGAN:
Helen Mawhinney	2:10p

DEPTH OF WELL (FT.)	DEPTH OF WATER (FT.)	WELL DIAM.
9.7	2.4	2"

TIME	GALLONS	pH	TEMP.	COND.
2:10	1	7.26	55.3	12.10
2:20	2	7.25	55.3	12.09
2:25	3	7.24	55.3	12.09
2:35	4	7.23	55.3	12.09
3:00	5	7.22	55.3	12.08
3:05	7	7.22	55.3	12.08

VOLUME EVACUATED	PURGING EQUIP.	SAMPLING EQUIP.
8 gallons	Stainless Steel Bailer	Stainless Steel Bailer

DEPTH TO WATER UPON COMPLETION OF SAMPLING
Not measured. Recharge very slow

SHEEN	FLOATING PRODUCT	SAMPLE COLOR	ODOR
no	no	grey	no

SEDIMENT/FOREIGN MATTER:

SAMPLE ID#	ANALYSIS	LABORATORY
MW-3	TPHg, BTEX	S & W Lab.

SAMPLE CONTAINERS
3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA/ MW-1

<u>Project Name:</u>	<u>Well#</u>
ALAMEDA GOLF COURSE	MW-1

Date: September 18, 1992

<u>Name:</u>	<u>Time Began:</u>
Mawhinney	11:27

<u>DEPTH OF WELL(ft.)</u>	<u>DEPTH TO WATER(ft.)</u>	<u>WELL DIAM.</u>
9.77	5.36	2"

<u>Time</u>	<u>Gallons</u>	<u>Salinity</u>	<u>pH</u>	<u>Temp.</u>	<u>Cond.</u>
11:27	1	1.2	5.6	20 C	21.0
11:40	3	1.2	*	19 C	21.0
11:52	5	1.2	*	19 C	23.0
12:07	7	1.2	*	19 C	21.0

<u>Volume Evacuated</u>	<u>Purging Equip.</u>	<u>Sampling Equip.</u>
10 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling
Not measured. Slow Recharge

<u>Sheen</u>	<u>Floating Product</u>	<u>Sample Color</u>	<u>Odor</u>
no	no	grey	no

Sediment/Foreign Matter: very little silt

<u>Sample ID#</u>	<u>Analysis</u>	<u>Laboratory</u>
MW-1	TPHg, BTEX, Total Lead	S & W Lab.

Sample Containers
3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA/ MW-2

Project Name: ALAMEDA GOLF COURSE **Well#** MW-2

Date: September 18, 1992

Name: Mawhinney **Time Began:** 12:19

DEPTH OF WELL(ft.) 9.77 **DEPTH TO WATER(ft.)** 1.89 **WELL DIAM.** 2"

Time	Gallons	Salinity	pH	Temp.	Cond.
12:25	1	1.8		21 C	31.0
12:36	3	1.7		21 C	29.0
12:49	5	2.0		20 C	34.0
1:03	7	2.2		19 C	36.0
1:15	10	2.2		19 C	36.0

Volume Evacuated 10 gallons **Purging Equip.** Stainless Steel Bailer **Sampling Equip.** Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

Not measure. Slow Recharge

Sheen no **Floating Product** no **Sample Color** grey **Odor** no

Sediment/Foreign Matter: silt

Sample ID# MW-2 **Analysis** TPHg, BTEX & Total Lead **Laboratory** S & W Lab.

Sample Containers
3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA/ MW-3

Project Name:	Well#
ALAMEDA GOLF COURSE	MW-3

Date: September 18, 1992

Name:	Time Began:
Mawhinney	1:29

DEPTH OF WELL(ft.)	DEPTH TO WATER(ft.)	WELL DIAM.
9.71	2.28	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
1:29	1	1.8		21 C	31.0
1:37	3	1.7		21 C	27.0
1:48	5	1.7		19C	29.0
1:59	7	2.0		20 C	30.0
2:15	10	2.2		19 C	30.0

Volume Evacuated	Purging Equip.	Sampling Equip.
10 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling
 Not measure. Slow Recharge

Sheen	Floating Product	Sample Color	Odor
no	no	grey	no

Sediment/Foreign Matter: silt

Sample ID#	Analysis	Laboratory
MW-3	TPHg, BTEX, TOTAL LEAD	S & W Lab.

Sample Containers
 3/ 40-ml VOAs